

Report No.:ZR/2020/9003203-01

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#### FCC TEST REPORT

Application No: ZR/2020/90032

**Applicant:** Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd **Address of Applicant:** Floor 21, Block A, Coolpad Building, Intersection of Keyuan Avenue and

Baoshen Road, North High-Tech Industrial Park, Nanshan District,

Shenzhen

Manufacturer: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Address of Manufacturer Floor 21, Block A, Coolpad Building, Intersection of Keyuan Avenue and

Baoshen Road, North High-Tech Industrial Park, Nanshan District,

Shenzhen

**EUT Description:** Mobile Hotspot

Model No.: CP337AS

Trade Mark: coolpad

FCC ID: R38YLCP337AS

Standards: 47 CFR FCC Part 2, Subpart J
47 CFR FCC Part 15, Subpart E

KDB 789033 D02 General UNII Test Procedures New Rules v02

FCC KDB 558074 D01 DTS Meas Guidance v0502

Test Method:

ANSI C63.10-2013, American National Standard for Testing Unlicensed

Wireless Devices

**Date of Receipt:** 2020/10/8

**Date of Test:** 2020/10/21 to 2020/12/31

**Date of Issue:** 2021/4/18

Test Result: PASS \*

Authorized Signature:

Derale yang

Derek Yang Wireless Laboratory Manager



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<sup>. \*</sup> In the configuration tested, the EUT complied with the standards specified above.

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#### 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/1/5		Original
02		2021/4/18	Sherlock Fang	1.Add test site Information     2. Modify data conversion     error of antenna height     3.Update equipment list

This report supersedes our previous report ZR/2020/9003203, issued on 2021-01-05, which is hereby deemed null and void.

Authorized for issue by:	
Prepared By	Sherlock Fans (Sherlock Fang) / Engineer
Checked By	(Jim Huang) / Reviewer

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### 2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict	Test Lab*
Emission Bandwidth	5150- 5250	15.403(i) 15.407(a)(1)	No limit.		Pass	А
	5725- 5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 4.4		
Occupied Bandwidth	5150- 5250 5725- 5850	KDB 789033 D02§ D	No limit.	Clause 4.5	Pass	А
Duty Cycle	5150- 5850		No limit.			
Maximum Conducted Output Power	5150- 5250 5725- 5850	15.407(a)(1) 15.407(a)(4) 15.407(a)(3)	FCC < 250mW (avg during transmission) < 1W (avg during transmission)	Clause 4.3	Pass	A
maximum Power Spectral Density	5150- 5250 5725- 5850	15.407(a)(1) 15.407(a)(4) 15.407(a)(3) 15.407(a)(4)	<11dBm/MHz (avg during transmission) <30dBm/500KHz (avg during transmission)	Clause 4.6		
	5150- 5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).			
Unwanted Emissions that fall Outside of the Restricted Bands(Radiated)	5725- 5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to - 27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.7	Pass	В



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict	Test Lab*
Unwanted Emissions in the Restricted Bands (Radiated)	5150- 5250 5725- 5850	15.209		Clause 4.8	Pass	В
AC Power Line Conducted Emissions	5150- 5250 5725- 5850	15.207		Clause 4.2	Pass	В
Frequency Stability	5150- 5250 5725- 5850	15.209		Clause 4.9	Pass	А

Remark: All test were performed by Lab A and B. Parts of test items above were subcontracted to Lab B. Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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#### Remark:

The differences between Main Supply and Secondary Supply are showed in the following table.

Main Supply:

′		
Part Name	Model Name	supplier
Battery	CPLD-440	Jiade
Memory	FS702B2R1DH2A2KDE	FORESEE
PCB	CP337AS MAINBOARD P3-ZH	Zhihao

Secondary Supply:

Part Name	Model Name	supplier
Battery	CPLD-440	Ganfeng
Memory	NM1282KSLAXAL-3B	Nanya
PCB	CP337AS MAINBOARD P3_SUNTAK	Suntak

#### Note:

According to the difference description above, only the worst case data displayed in this report.



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#### **General Information** 3

#### 3.1 Client Information

Applicant:	Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address of Applicant:	Floor 21, Block A, Coolpad Building, Intersection of Keyuan Avenue and Baoshen Road, North High-Tech Industrial Park, Nanshan District, Shenzhen
Manufacturer:	Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address of Manufacturer:	Floor 21, Block A, Coolpad Building, Intersection of Keyuan Avenue and Baoshen Road, North High-Tech Industrial Park, Nanshan District, Shenzhen

#### 3.2 Test Location

#### Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Dee Zheng,Mike Hu

#### Lab B:

Eus Bi		
Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.	
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China	
Post code:	710086	
Test engineer:	Ben Huang, Leah Chen	



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### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### Lab A:

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### Lab B:

#### • A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

FCC –Designation Number: CN1271



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### 3.4 General Description of EUT

EUT Description:	Mobile Hotspot
Model No.:	CP337AS
Trade Mark:	coolpad
Hardware Version:	P3
Software Version:	3.18.054.P3.201216.CP337AS
IEEE 802.11 WLAN Mode Supported:	<ul> <li>⊠ 802.11a (20 MHz channel bandwidth);</li> <li>⊠ 802.11n (20 MHz channel bandwidth);</li> <li>⊠ 802.11n (40 MHz channel bandwidth);</li> <li>⊠ 802.11ac (20 MHz channel bandwidth);</li> <li>⊠ 802.11ac (40 MHz channel bandwidth);</li> <li>⊠ 802.11ac (80 MHz channel bandwidth);</li> </ul>
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
Sample Type:	☐ Portable Device, ⊠Module
Antenna Type:	☐ External, ☑ Integrated
Antenna Ports	⊠ Ant 1, ☐ Ant 2, ☐ Ant 3
Smart System	<ul><li>SISO (for 802.11a/n/ac),</li><li>☐ MIMO (for 802.11n/ac),</li><li>☐ Diversity (for 802.11a) : Tx &amp; Rx</li></ul>
Antenna Gain:	-3dBi,
Power Supply	□ AC/DC Adapter; □ PoE:; □ Other:

#### Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre



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#### For UNII Band I:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5180
IEEE 802.11a/n/ac 20MHz	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
IEEE OUZ. I III/dC 4UIVIMZ	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

#### For UNII Band III:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5745
IEEE 802.11a/n/ac 20MHz	The Middle channel	5785
	The Highest channel	5825
IFFF 900 44n/on 40MH-	The Lowest channel	5755
IEEE 802.11n/ac 40MHz	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775



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#### 3.5 Test Environment and Mode

Operating Environment:				
Temperature:	25.0 °C			
Humidity:	55 % RH			
Atmospheric Pressure:	101.32 KPa			
Test mode:				
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of			
	data rate.			



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### 4 Test results and Measurement Data

### 4.1 Antenna Requirement

Test Requirement: 47 CFR Part 15 Section 15.203					
The antenna is integrated ar	tenna and no consideration of replacement. The best case gain of the antenna is				
-3dBi.					

#### 4.2 Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:	Fraguera, rongo (MIII-)	Limit (	dBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the loga	rithm of the frequency.				
Test Procedure:						

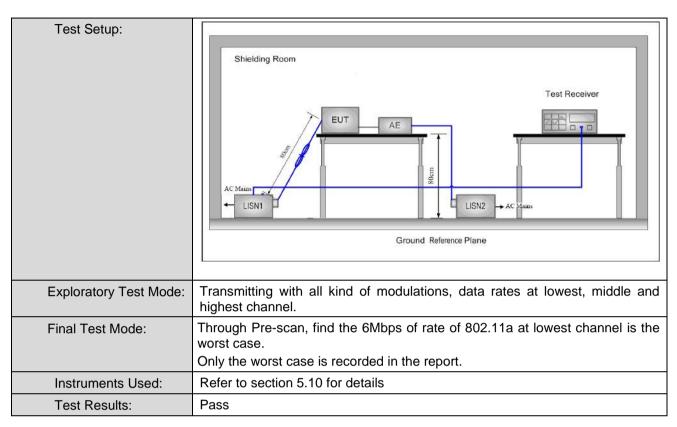


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#### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



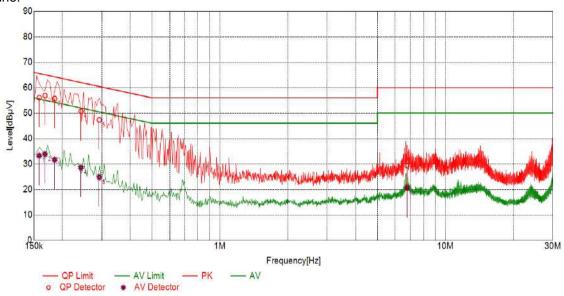
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#### **Test Graph**

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1584	10.10	56.08	65.55	9.47	33.26	55.55	22.29	L
2	0.1682	10.10	56.85	65.05	8.20	33.91	55.05	21.14	L
3	0.1857	10.10	55.67	64.22	8.55	31.65	54.22	22.57	L
4	0.2428	10.10	50.70	62.00	11.30	28.60	52.00	23.40	L
5	0.2920	10.10	47.31	60.47	13.16	24.81	50.47	25.66	L
6	6.7693	10.10	29.30	60.00	30.70	20.56	50.00	29.44	L



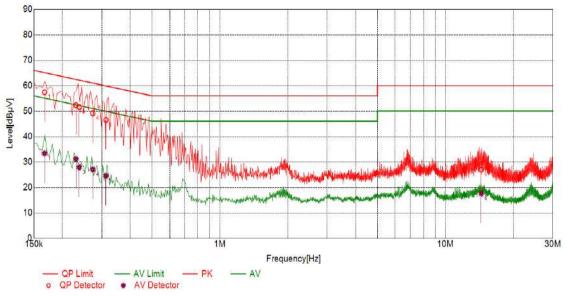
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#### **Neutral Line:**



#### **Test Graph**

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1674	10.10	57.39	65.09	7.70	33.37	55.09	21.72	N
2	0.2306	10.10	52.32	62.43	10.11	31.11	52.43	21.32	N
3	0.2384	10.10	51.62	62.15	10.53	27.83	52.15	24.32	N
4	0.2737	10.10	49.12	61.01	11.89	27.08	51.01	23.93	N
5	0.3130	10.10	46.50	59.89	13.39	24.53	49.89	25.36	N
6	14.4211	10.11	27.03	60.00	32.97	17.68	50.00	32.32	N

#### Remarks:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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### 4.3 Duty Cycle

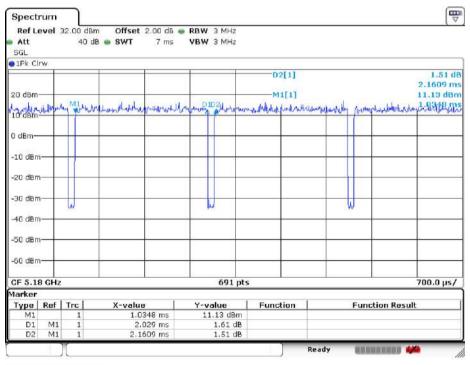
#### 4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11A	Ant 1: CH149, CH157, CH165	
11N20	Ant 1: CH149, CH157, CH165	
11N40	Ant 1: CH151, CH159	
11AC20	Ant 1: CH149, CH157, CH165	
11AC40	Ant 1: CH151, CH159	
11AC80	Ant 1: CH155	

#### 4.3.1 Test Plots

#### 4.3.1.1 ANT1

#### 4.3.1.1.1 11A



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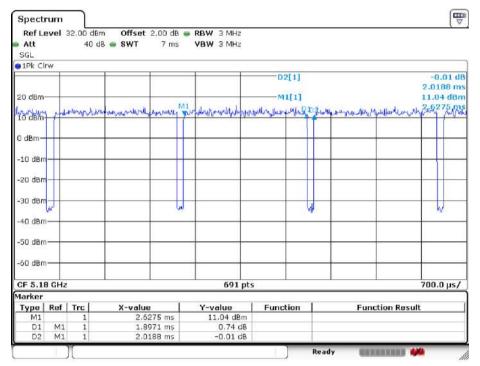
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#### 4.3.1.1.2 11N20



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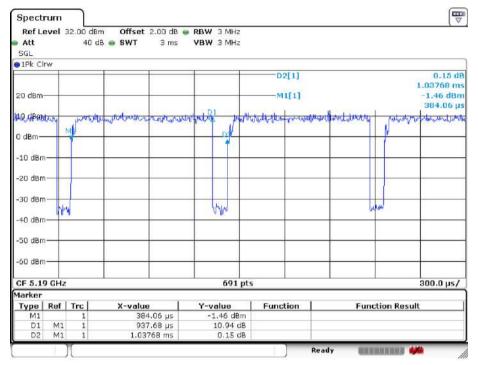
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#### 4.3.1.1.3 11N40



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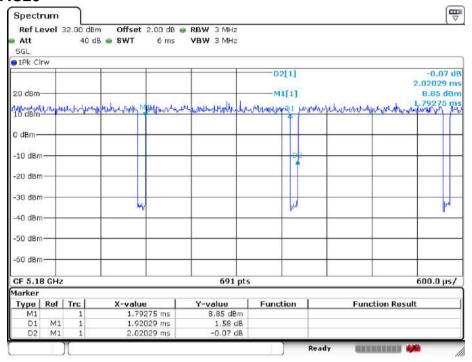
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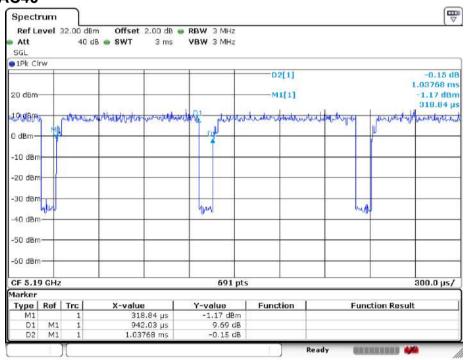
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#### 4.3.1.1.4 11AC20



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#### 4.3.1.1.5 11AC40



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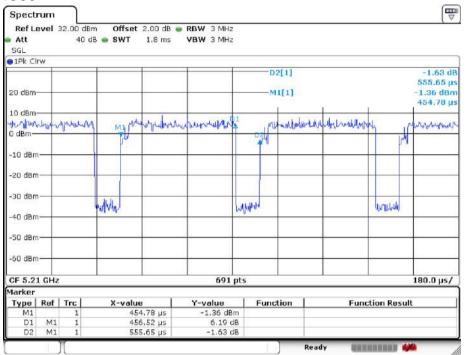
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#### 4.3.1.1.6 11AC80



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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Secti	on 15.407(a)				
Test Method:	ANSI C63.10: 2013					
Test Setup:	N	E.U.T  Ton-Conducted Table				
Test Instruments:						
	Refer to section 5.10 for details					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates					
Final Test Mode:	MCS0 of rate is the w MCS0 of rate is the w	orst case of 802.11a; orst case of 802.11n(HT20); orst case of 802.11n(HT40); orst case of 802.11ac(HT20); orst case of 802.11ac(HT40); orst case of 802.11ac(HT40); orst case of 802.11ac(HT80) orst case of 802.11ac(HT80)				
Limit:	Frequency Band	Limit				
	5150-5250MHz	Not exceed 250mW(24dBm)				
	5725-5850MHz Not exceed 1W(30dBm)					
	*Where B is the 26dB emission bandwidth in MHz					
Test Results:	Pass					



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4.4.1 **Test Results for Conducted Output Power** 

4.4.1	i est ivesuit	s for Conau	cieu Ouip	utrowei	1	
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
	36	5180	ANT 1	13.95	10.95	PASS
44400	44	5220	ANT 1	13.82	10.82	PASS
	48	5240	ANT 1	13.79	10.79	PASS
11A20	149	5745	ANT 1	13.52	10.52	PASS
	157	5785	ANT 1	13.45	10.45	PASS
	165	5825	ANT 1	13.34	10.34	PASS
	36	5180	ANT 1	13.72	10.72	PASS
	44	5220	ANT 1	13.56	10.56	PASS
11N20	48	5240	ANT 1	13.54	10.54	PASS
11N2U	149	5745	ANT 1	12.24	9.24	PASS
	157	5785	ANT 1	13.18	10.18	PASS
	165	5825	ANT 1	13.07	10.07	PASS
	38	5190	ANT 1	13.85	10.85	PASS
44840	46	5230	ANT 1	13.68	10.68	PASS
11N40	151	5755	ANT 1	11.81	8.81	PASS
	159	5795	ANT 1	12.74	9.74	PASS
	36	5180	ANT 1	13.68	10.68	PASS
	44	5220	ANT 1	13.56	10.56	PASS
11AC20	48	5240	ANT 1	13.54	10.54	PASS
TIAC20	149	5745	ANT 1	12.2	9.2	PASS
	157	5785	ANT 1	13.14	10.14	PASS
	165	5825	ANT 1	13.03	10.03	PASS
	38	5190	ANT 1	13.87	10.87	PASS
11AC40	46	5230	ANT 1	13.73	10.73	PASS
	151	5755	ANT 1	12.51	9.51	PASS
	159	5795	ANT 1	12.75	9.75	PASS
11AC80	42	5210	ANT 1	13.44	10.44	PASS
117000	155	5775	ANT 1	9.41	6.41	PASS



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#### 4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)				
Test Method:	ANSI C63.10: 2013				
Test Setup:	Spectrum Analyzer  Non-Conducted Table  Ground Reference Plane				
Instruments Used:	Refer to section 5.10 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the				
	6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20);				
	MCS0 of rate is the worst case of 802.11n(HT40);				
	MCS0 of rate is the worst case of 802.11ac(HT20);				
	MCS0 of rate is the worst case of 802.11ac(HT40);				
	MCS0 of rate is the worst case of 802.11ac(HT80).				
F226	Only the worst case is recorded in the report.				
Limit:	No restriction limits				
Test Results:	Pass				



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#### 4.5.1 **Test Results for 26dB Emission Bandwidth**

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
	36	5180	ANT 1	20.07	PASS
11A20	44	5220	ANT 1	19.95	PASS
	48	5240	ANT 1	19.95	PASS
	36	5180	ANT 1	20.7	PASS
11N20	44	5220	ANT 1	20.85	PASS
	48	5240	ANT 1	20.64	PASS
11N40	38	5190	ANT 1	40.98	PASS
111140	46	5230	ANT 1	41.16	PASS
	36	5180	ANT 1	20.88	PASS
11AC20	44	5220	ANT 1	20.7	PASS
	48	5240	ANT 1	21	PASS
11AC40	38	5190	ANT 1	41.04	PASS
11AC40	46	5230	ANT 1	41.28	PASS
11AC80	42	5210	ANT 1	83.68	PASS



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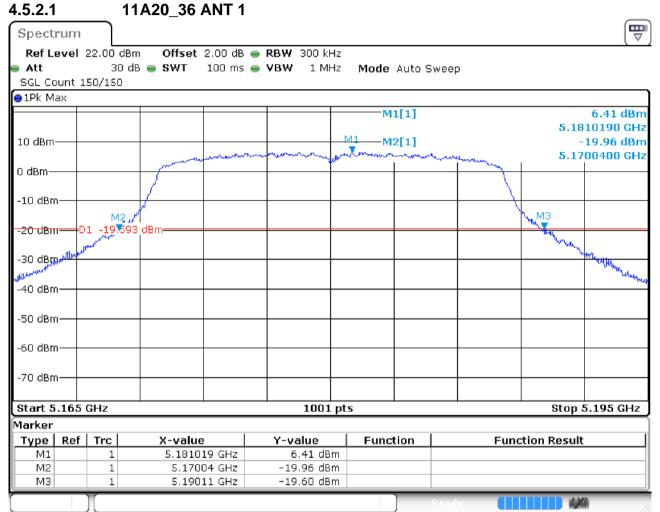
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### 4.5.2 Plots for 26dB Emission Bandwidth



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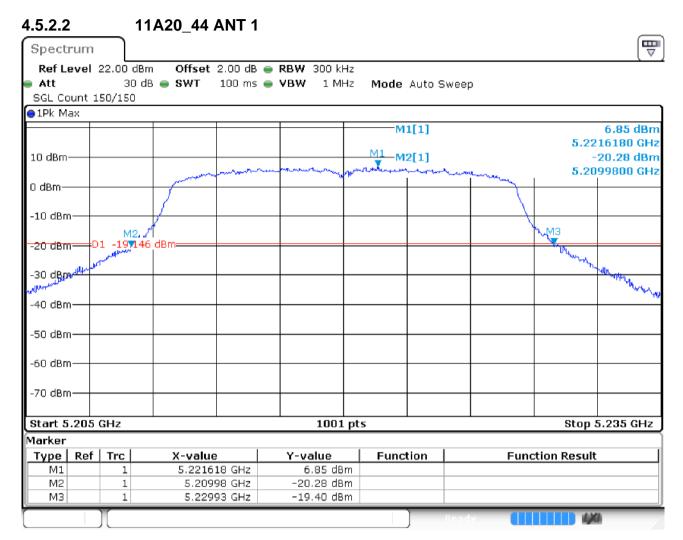
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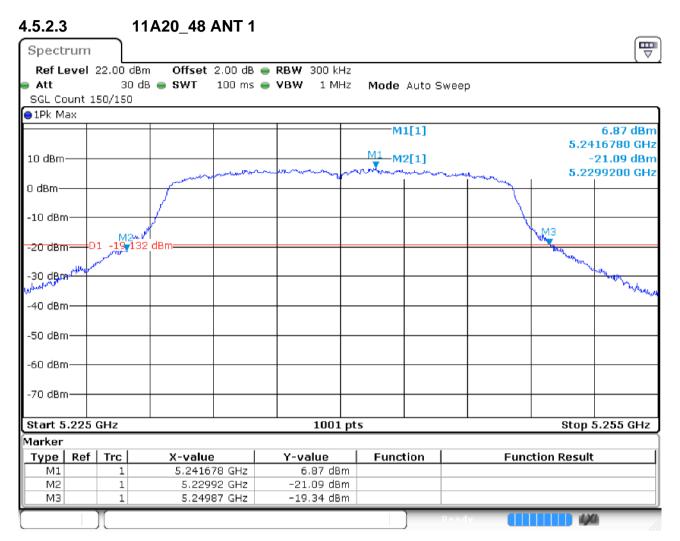
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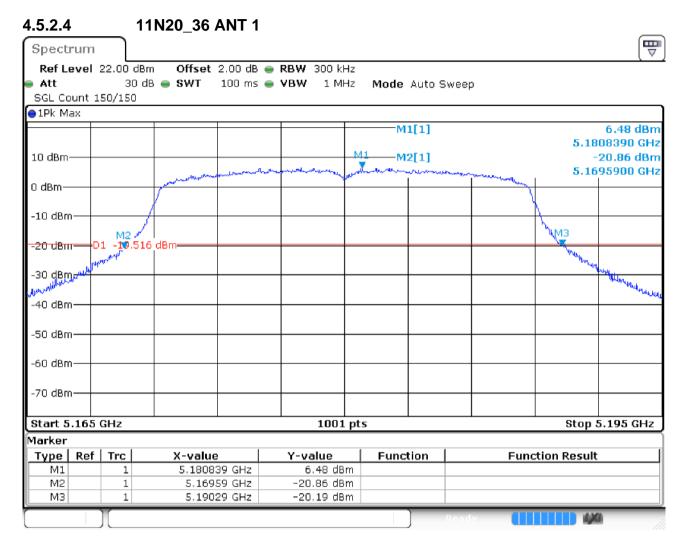
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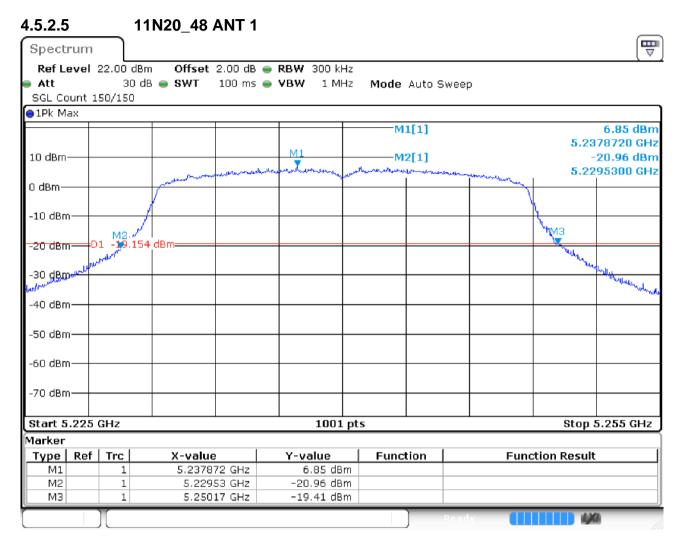
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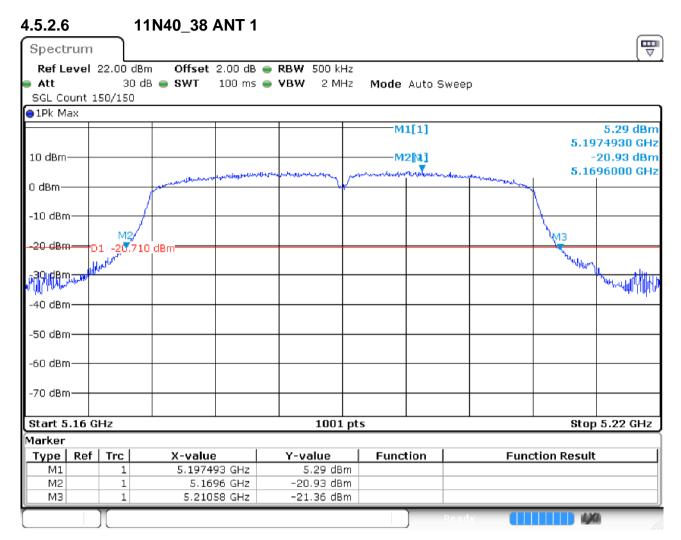
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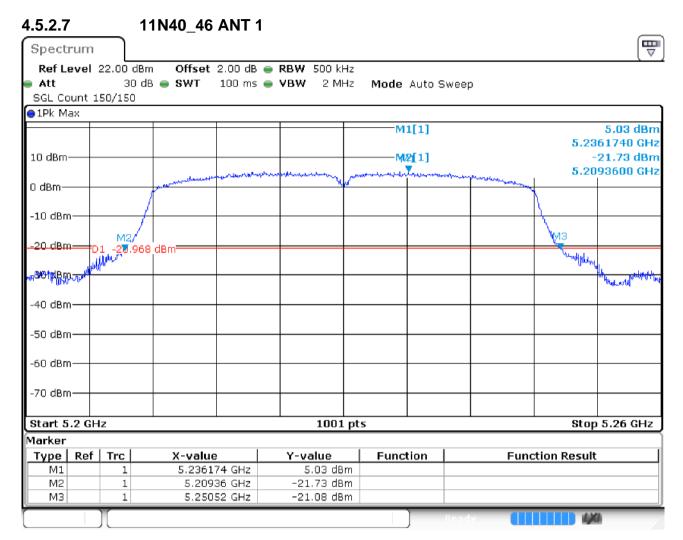
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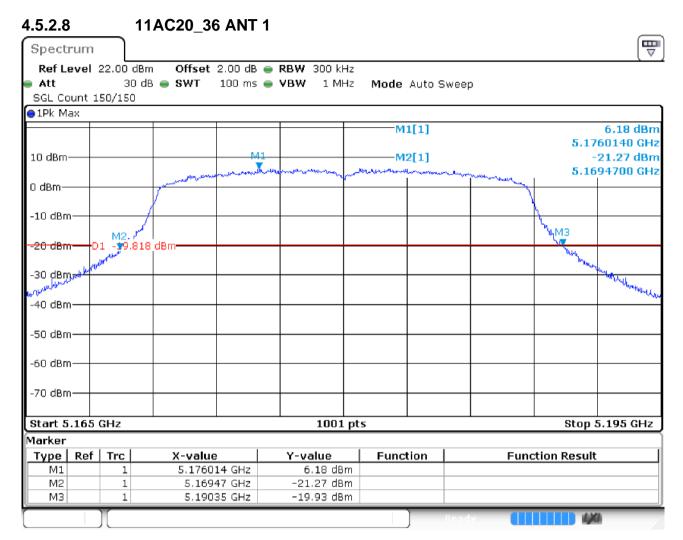
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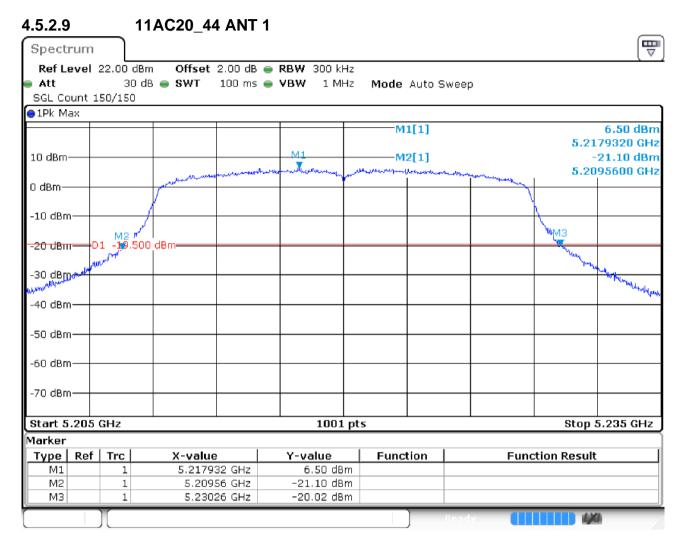
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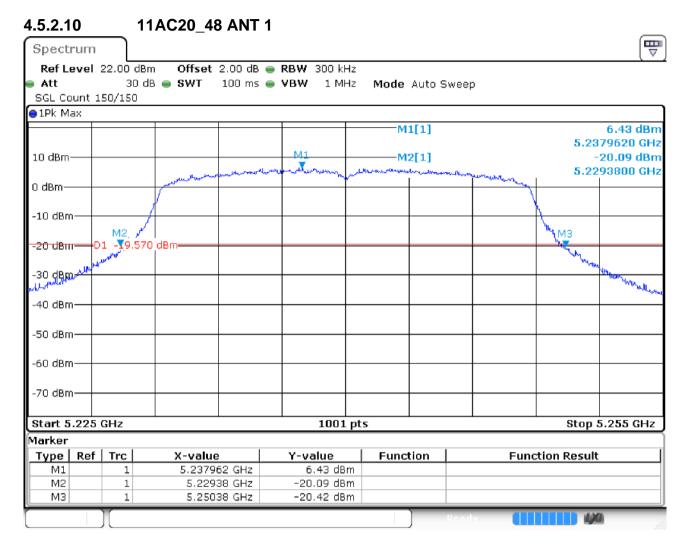
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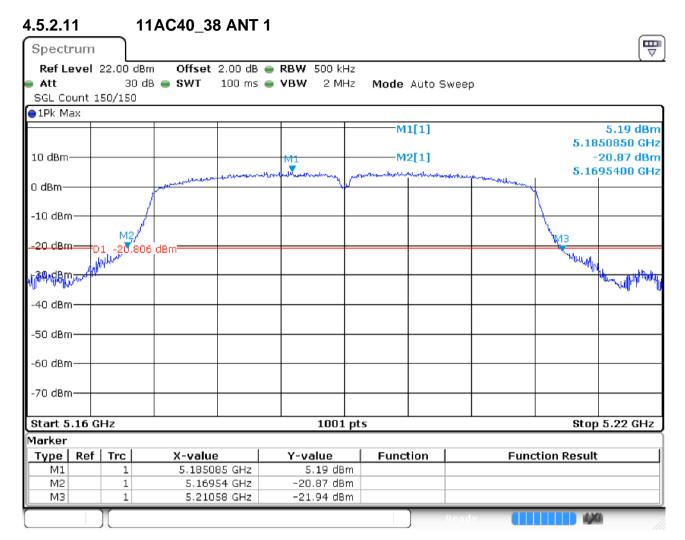
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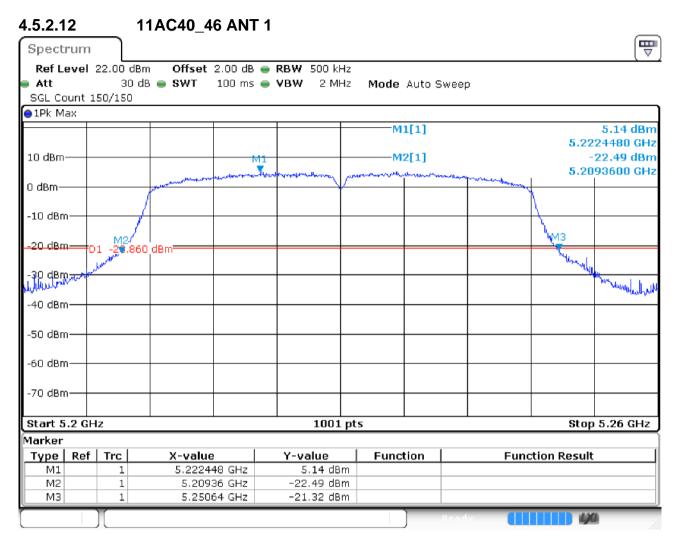
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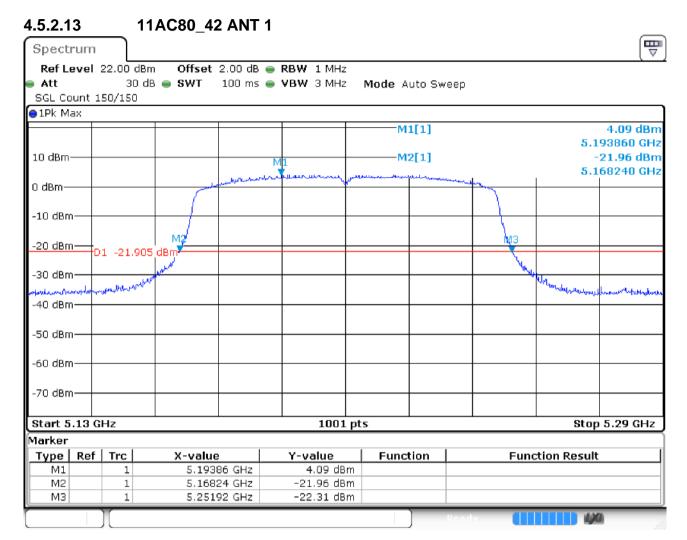
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#### 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)				
Test Method:	ANSI C63.10: 2013				
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 5.10 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.				
Limit:	Frequency Band 5725-5850MHz	Limit At lease 500kHz			
Test Results:	Pass	At lease Souni IZ			



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#### 4.6.1 Test Results for 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	15.6	PASS
	157	5785	ANT 1	15.6	PASS
	165	5825	ANT 1	15.6	PASS
11N20	149	5745	ANT 1	15.18	PASS
	157	5745	ANT 1	15.18	PASS
	165	5825	ANT 1	15.51	PASS
11N40	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.28	PASS
11AC20	149	5745	ANT 1	15.39	PASS
	149	5785	ANT 1	15.18	PASS
	165	5825	ANT 1	15.39	PASS
11AC40	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.28	PASS
11AC80	155	5775	ANT 1	75.52	PASS



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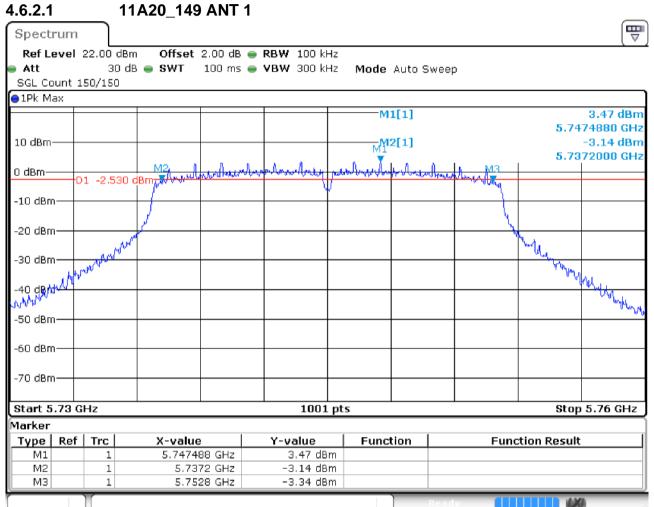
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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### 4.6.2 Plots for 6dB Emission Bandwidth



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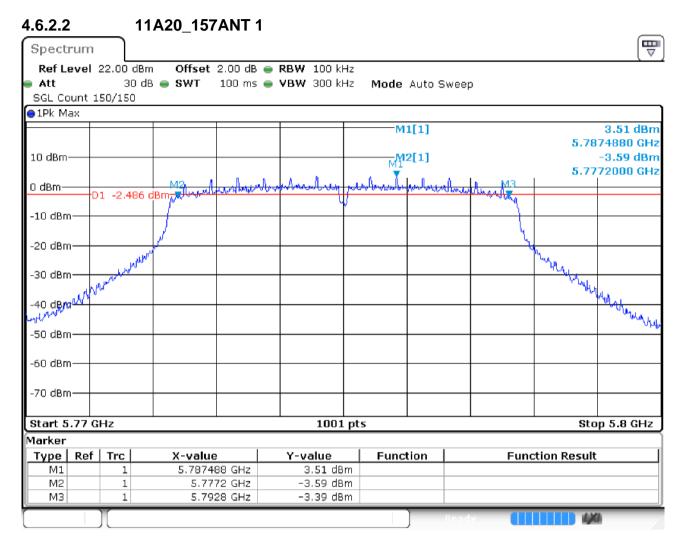
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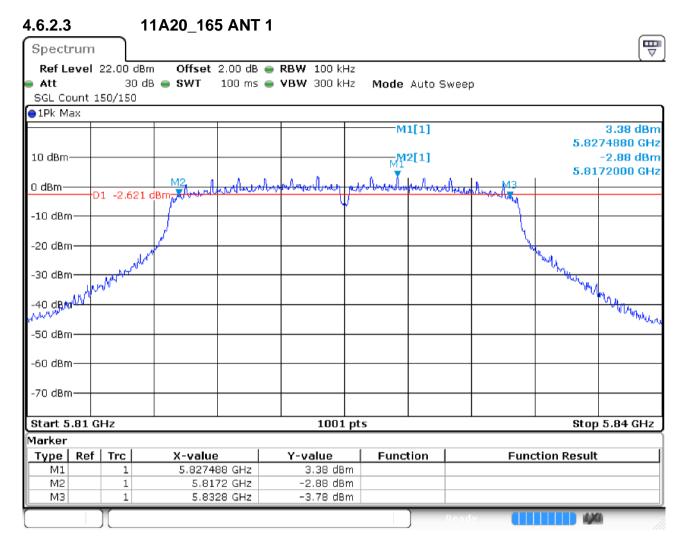
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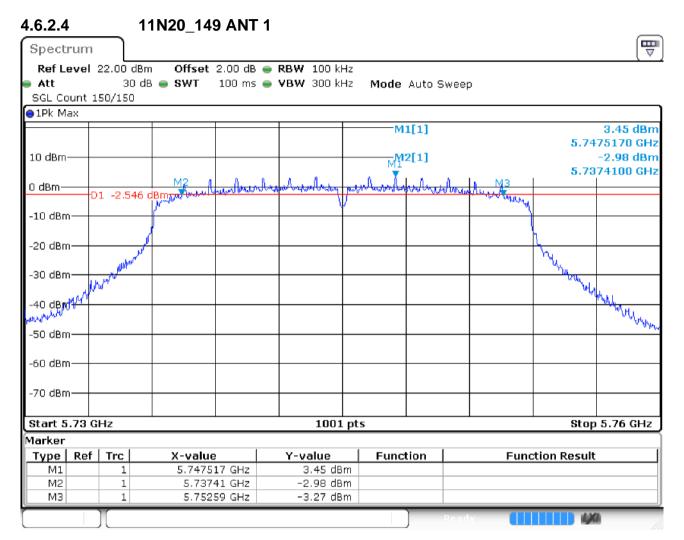
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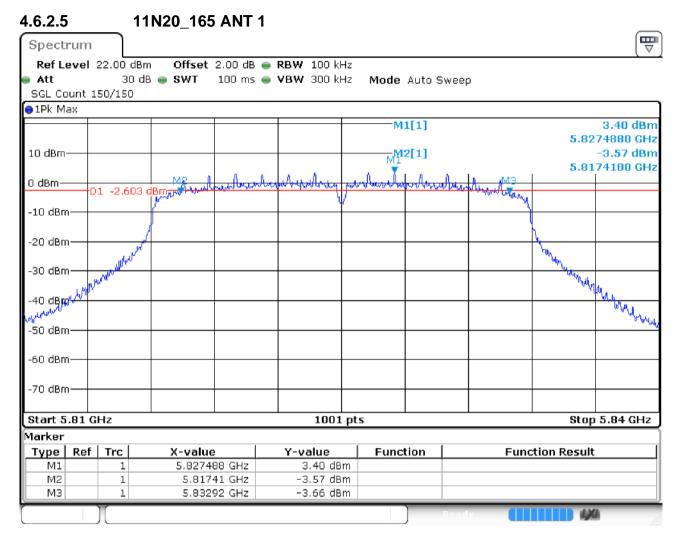
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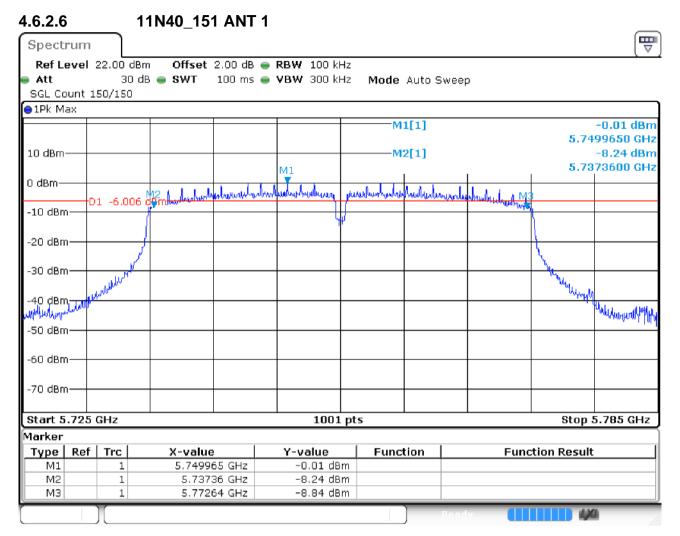
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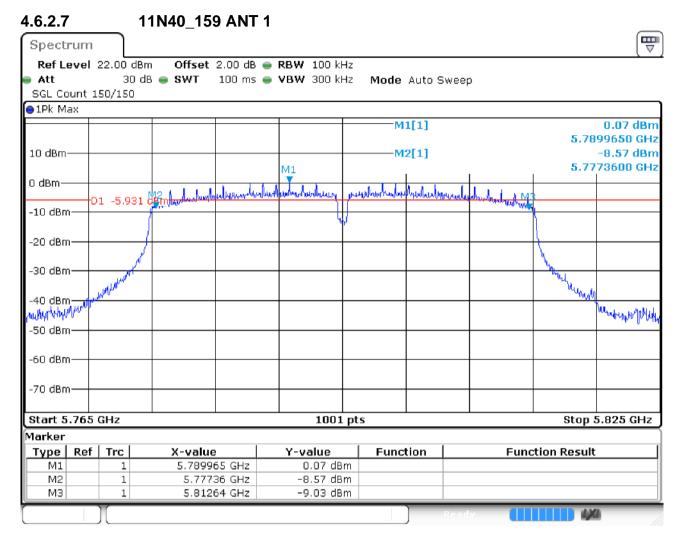
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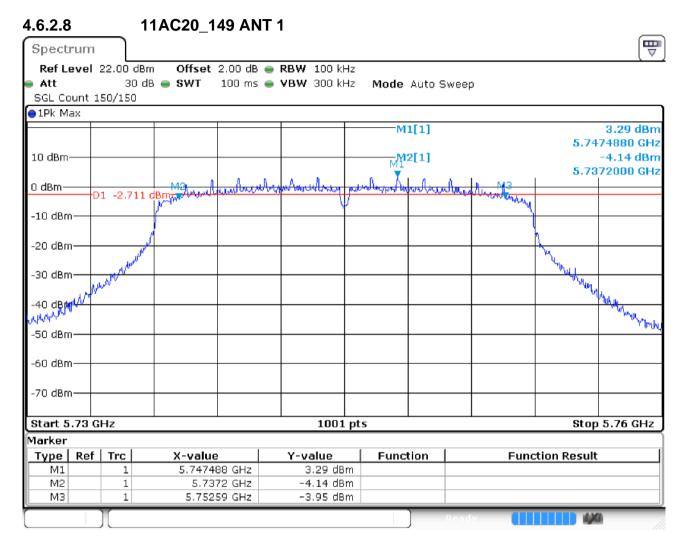
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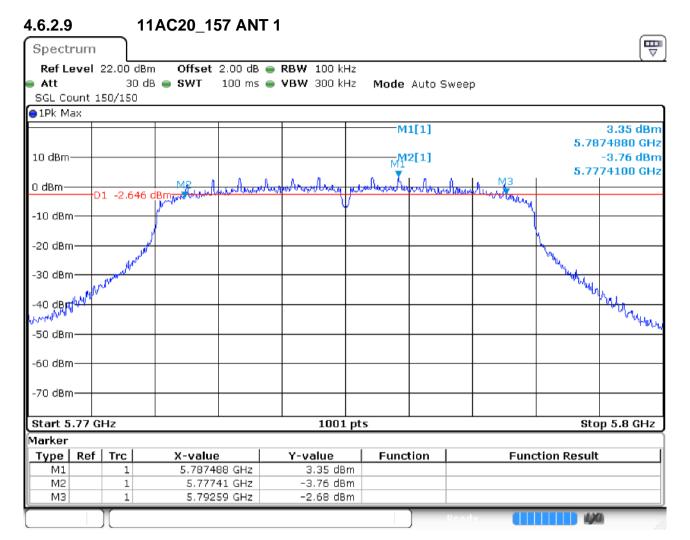
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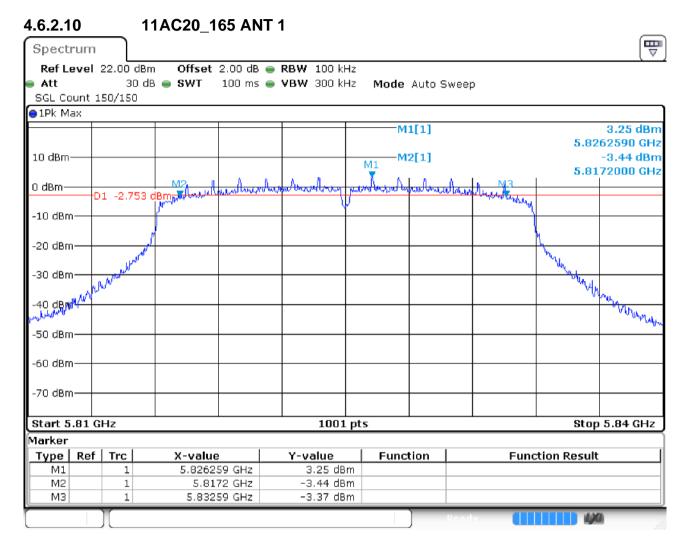


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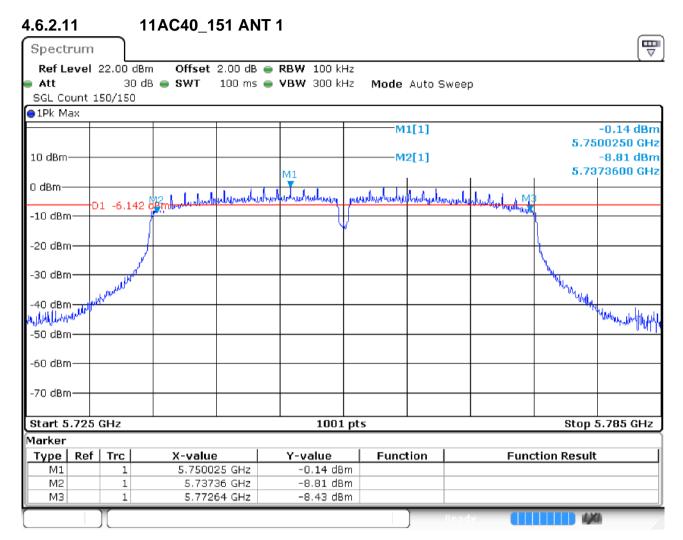


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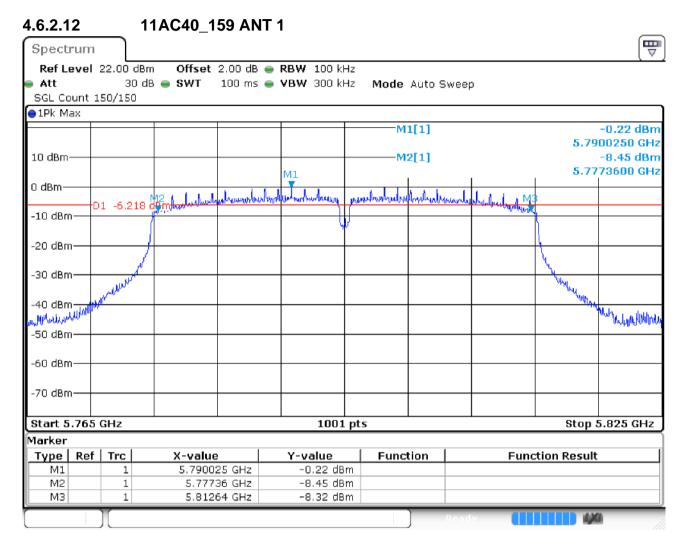
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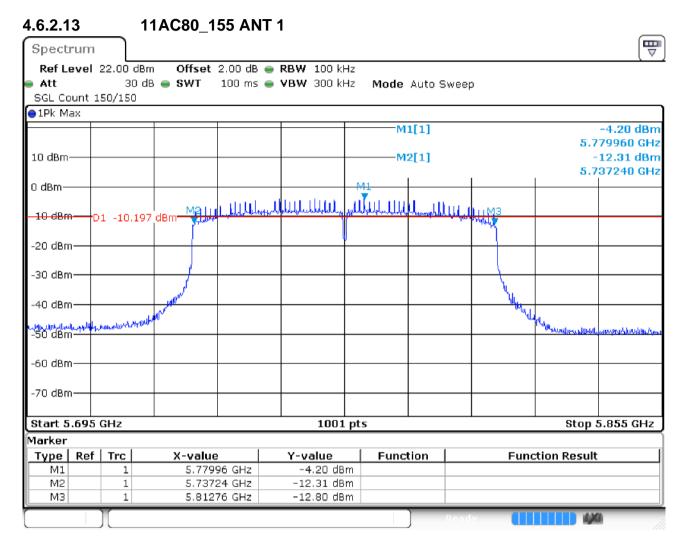


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#### 4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)					
Test Method:	ANSI C63.10: 2013					
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane					
Test Instruments:	Refer to section 5.10 for details					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates					
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.					
Limit:	Frequency Band Limit 5725-5850MHz At lease 500kHz					
Test Results:	Pass					



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4.7.1 Test Results for 99% Occupied Bandwidth

4.7.1	Test Results for 99% Occupied Balluwidth				
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	16.3037	PASS
	44	5220	ANT 1	16.3037	PASS
	48	5240	ANT 1	16.3037	PASS
	149	5745	ANT 1	16.2737	PASS
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	157	5785	ANT 1	17.3826	PASS
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	38	5190	ANT 1	35.9041	PASS
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	159	5795	ANT 1	35.9041	PASS
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	159	5795	ANT 1	35.9041	PASS
11AC80	42	5210	ANT 1	75.045	PASS
	155	5775	ANT 1	75.1648	PASS



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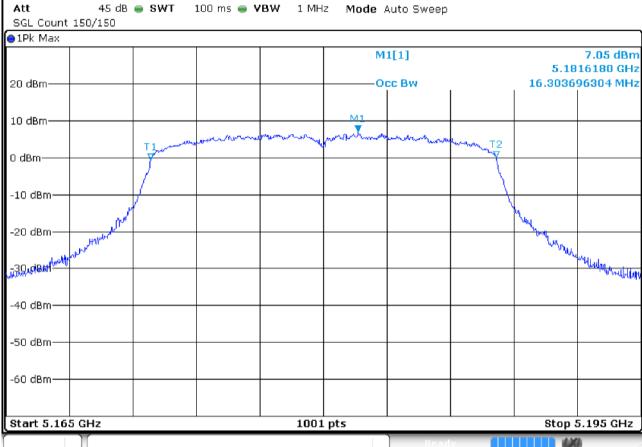
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#### 4.7.2 Plots for 99% Occupied Bandwidth



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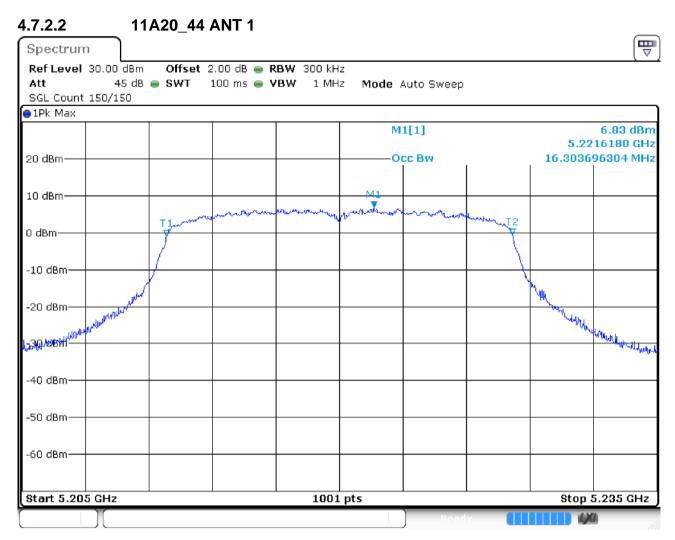
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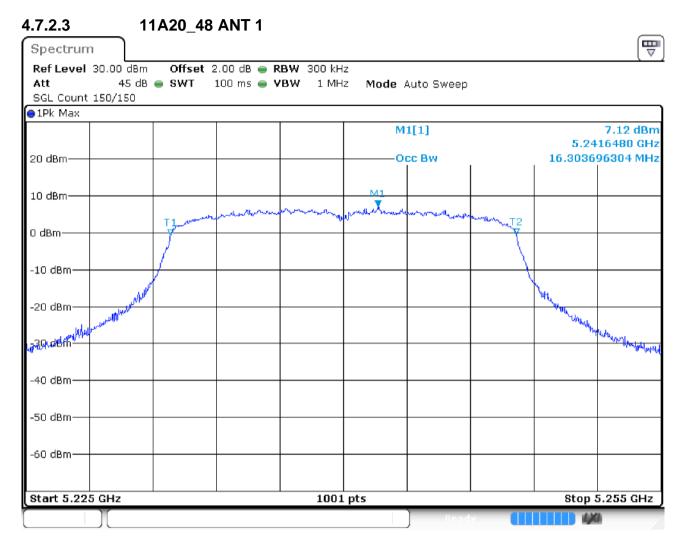
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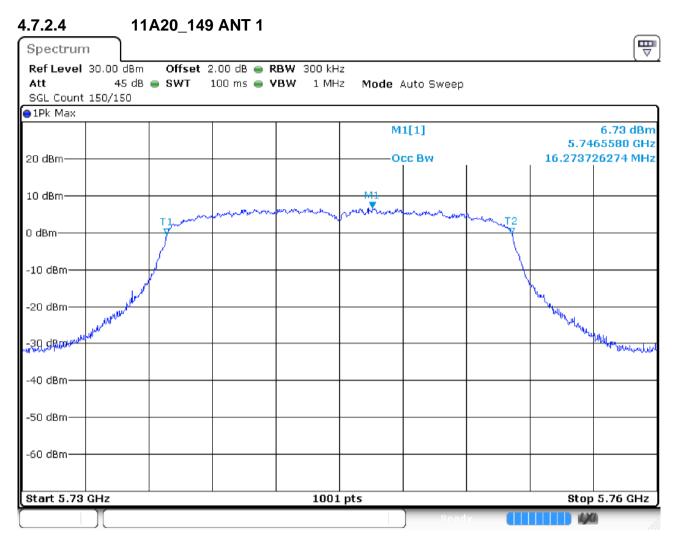
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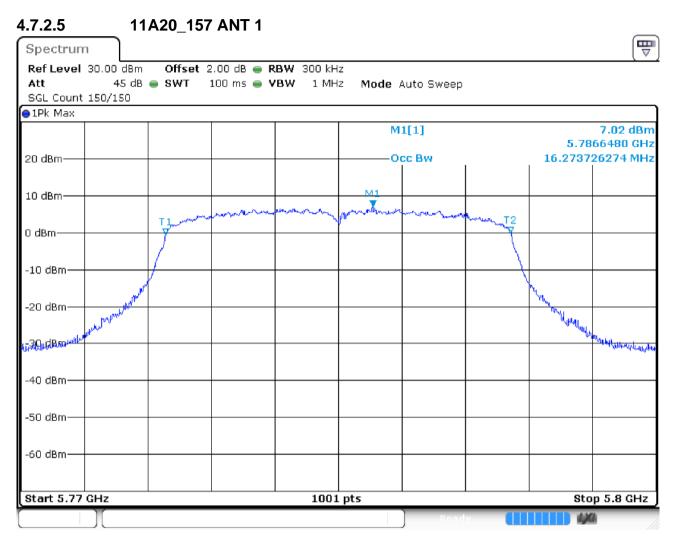
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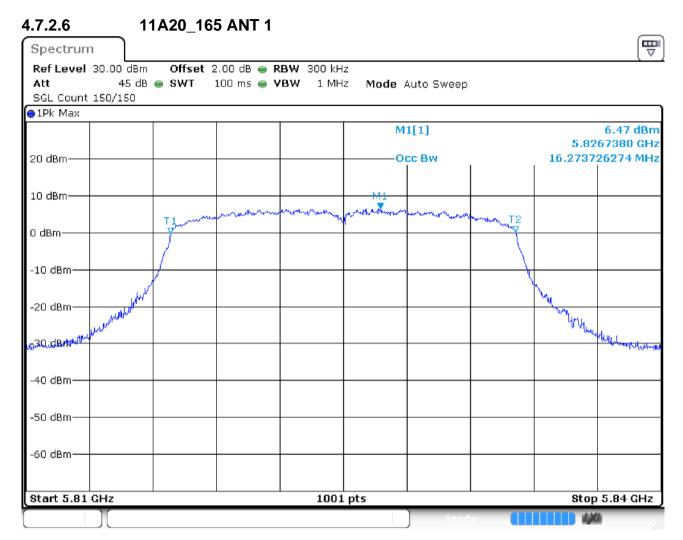
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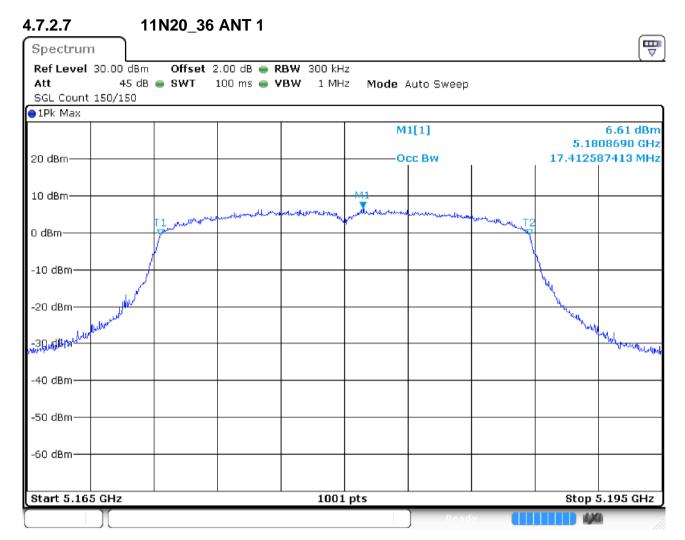
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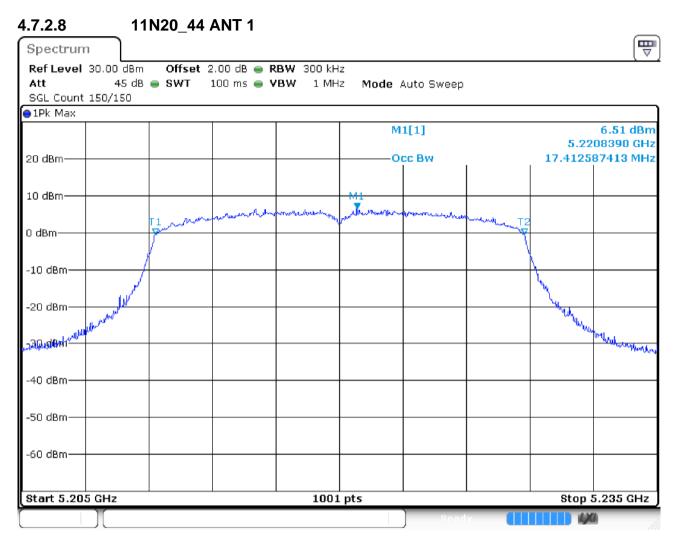
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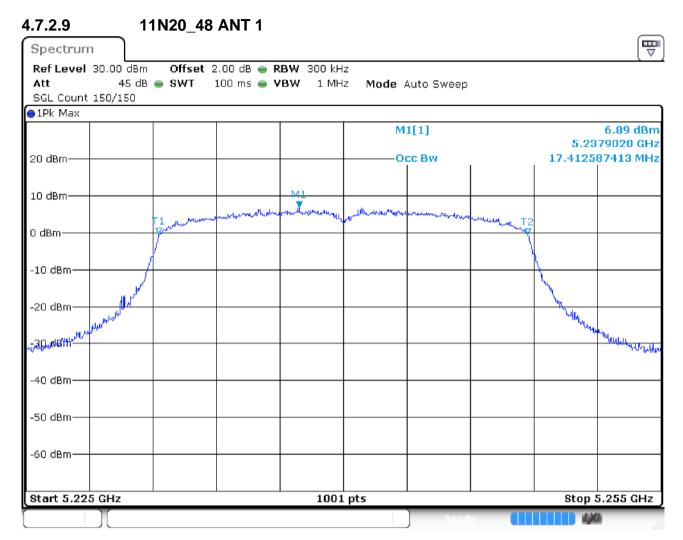


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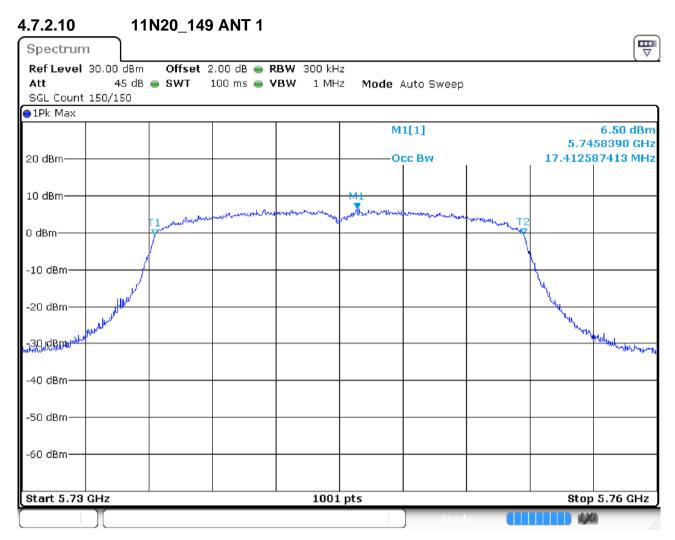
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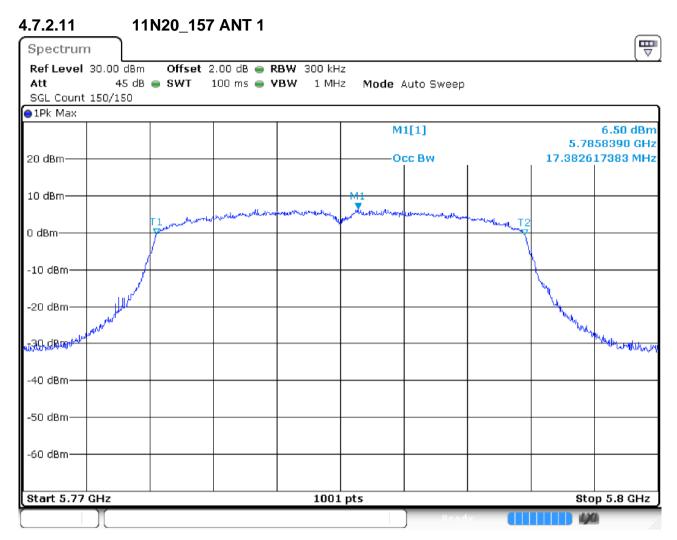
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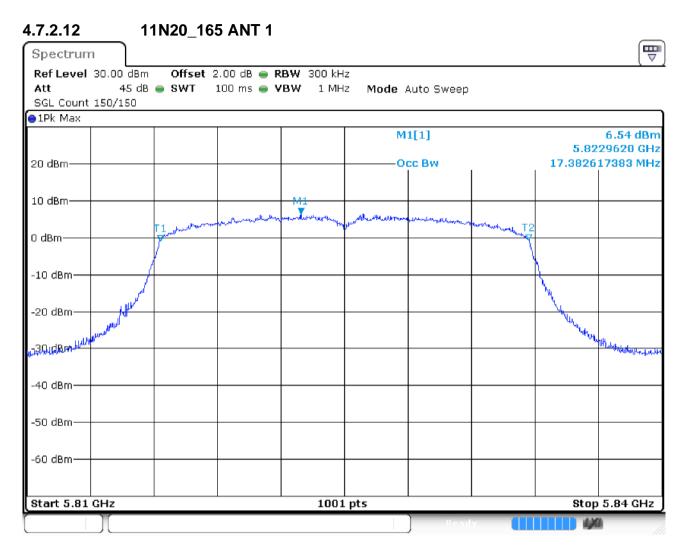
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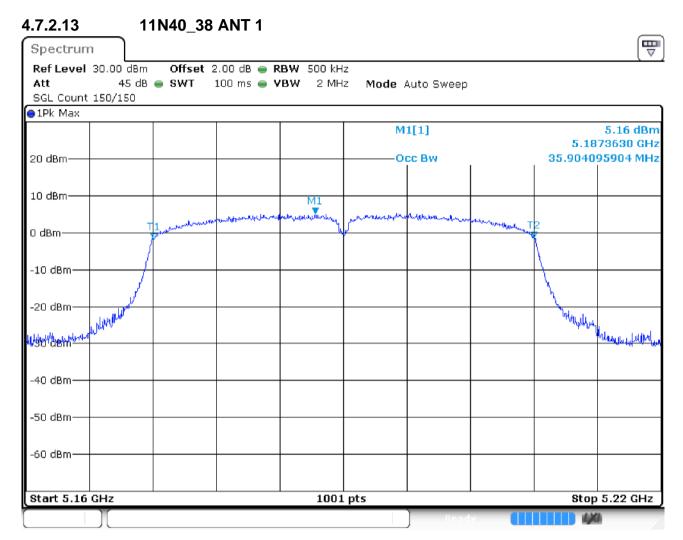
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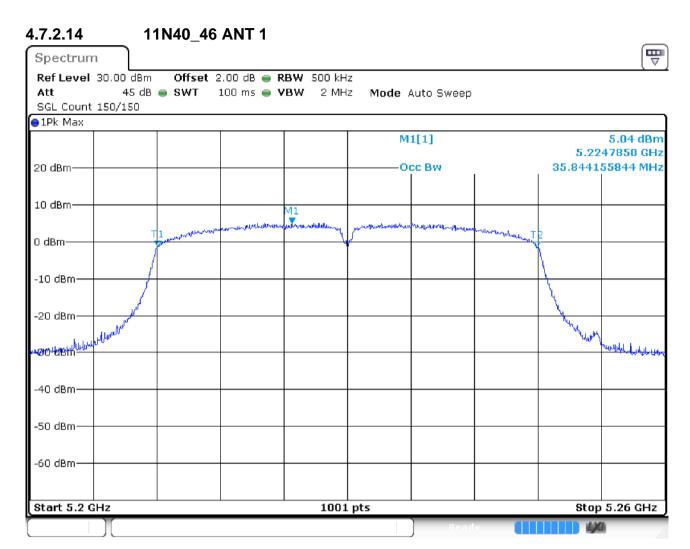
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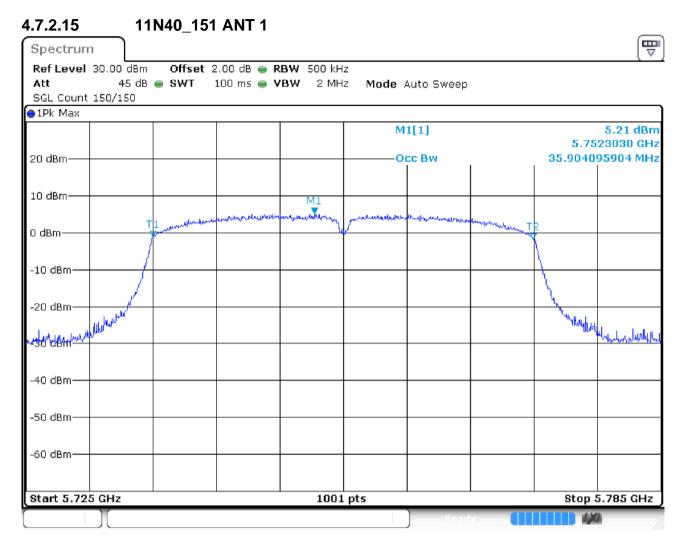
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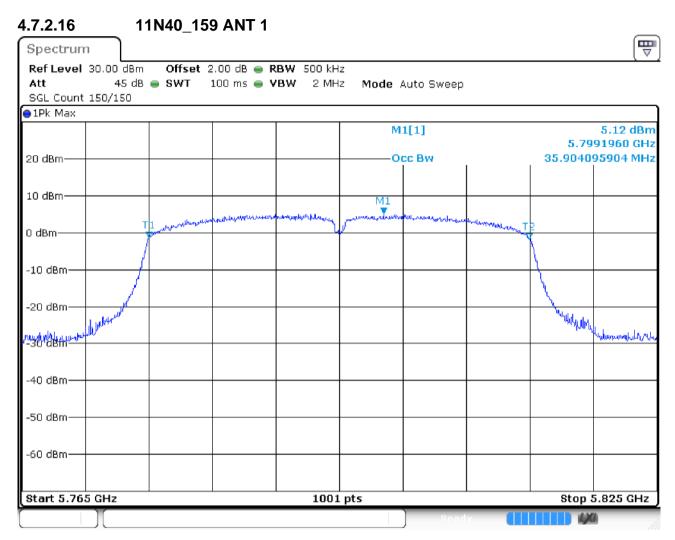
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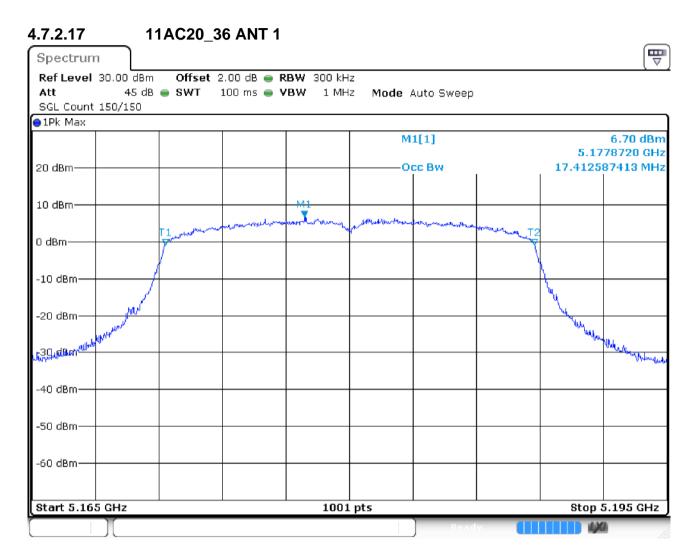
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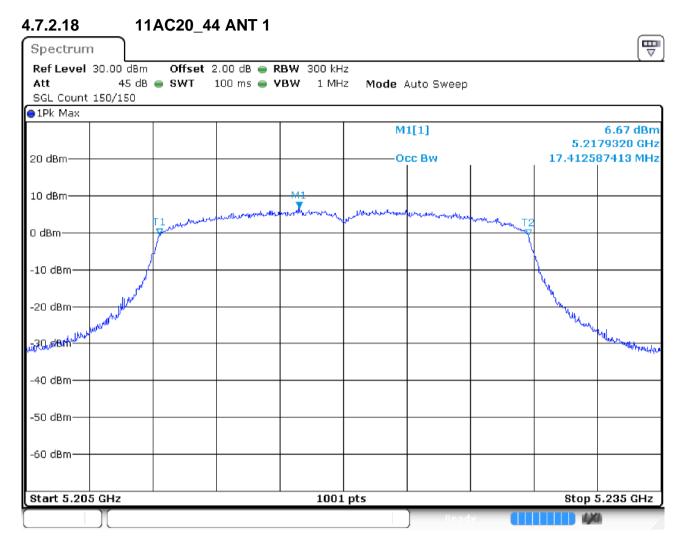
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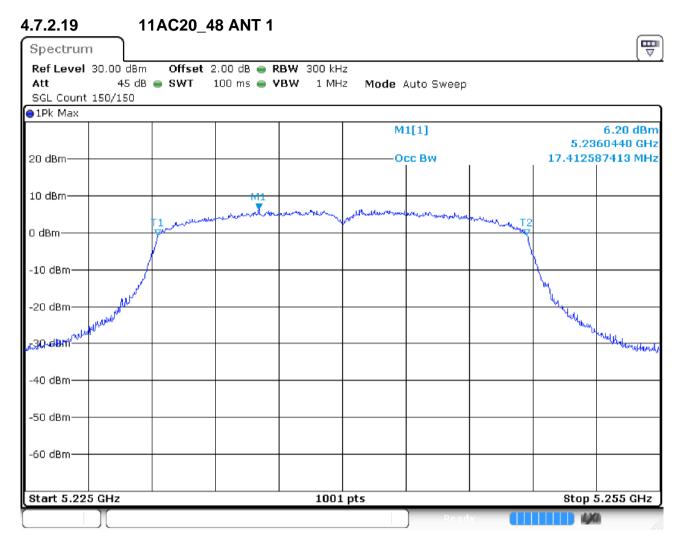
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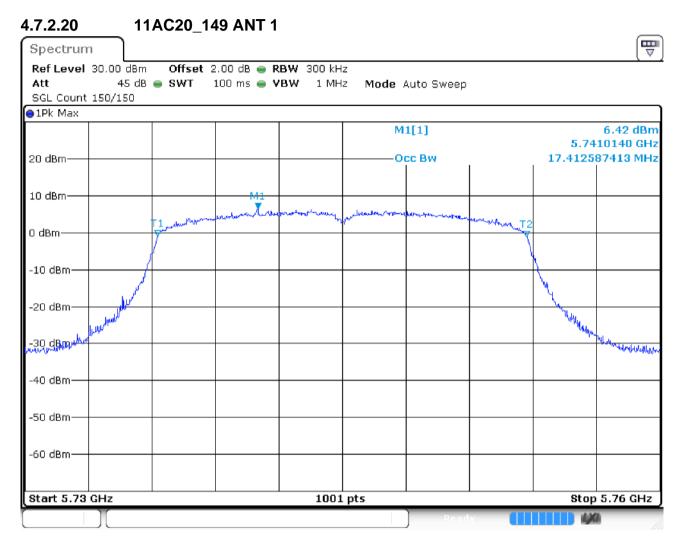
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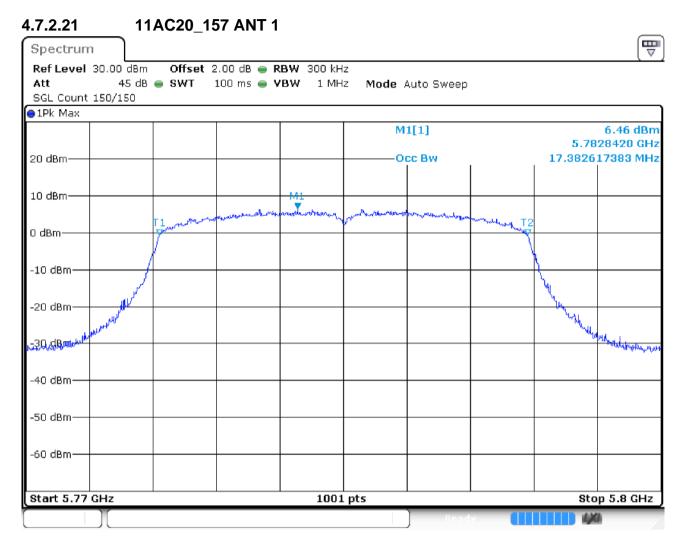
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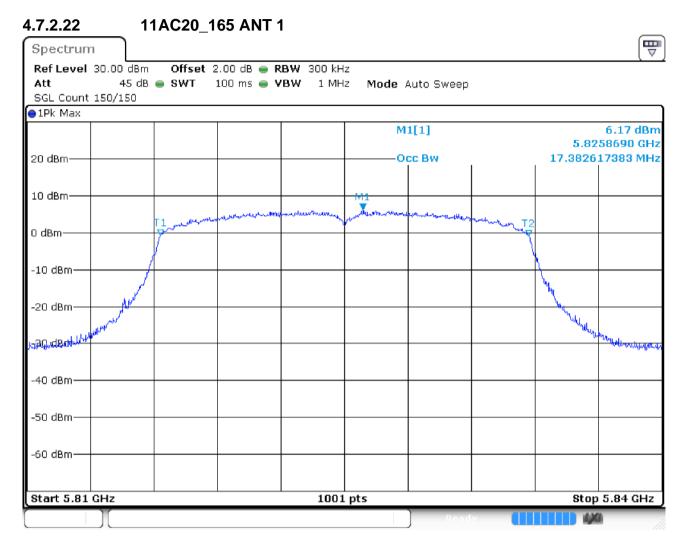
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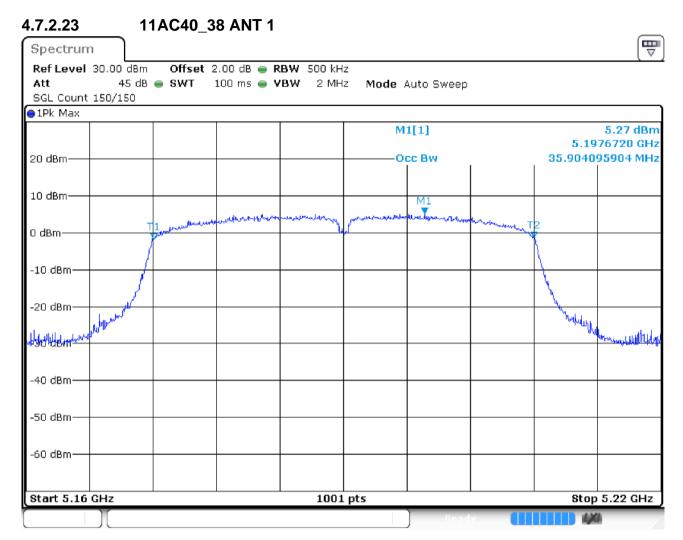
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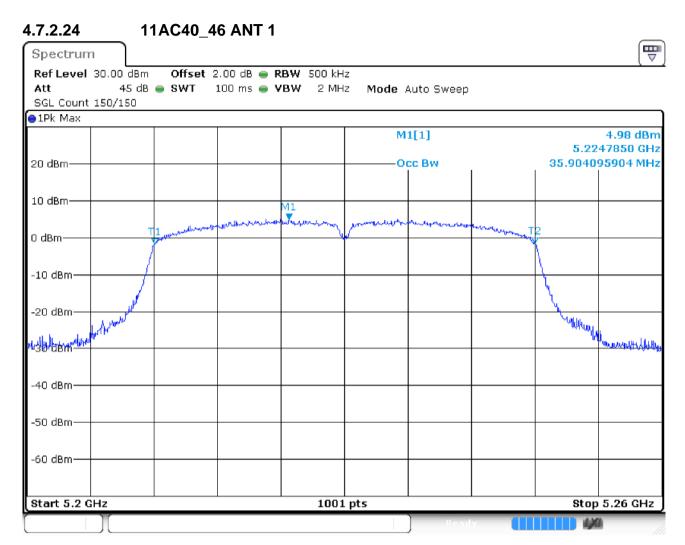
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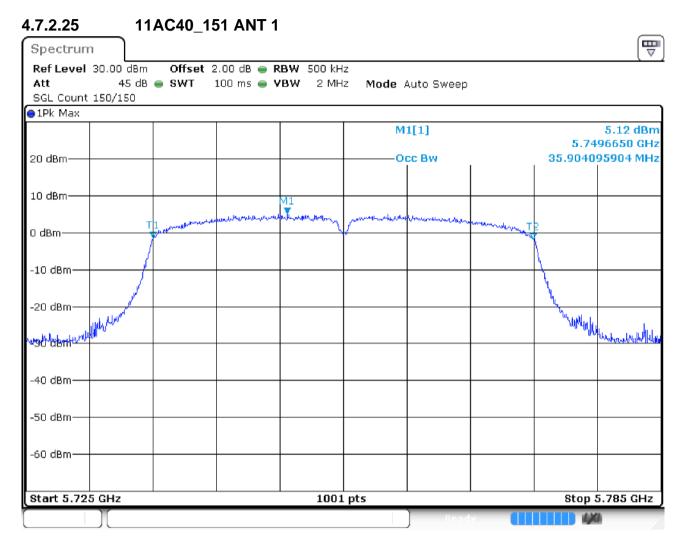
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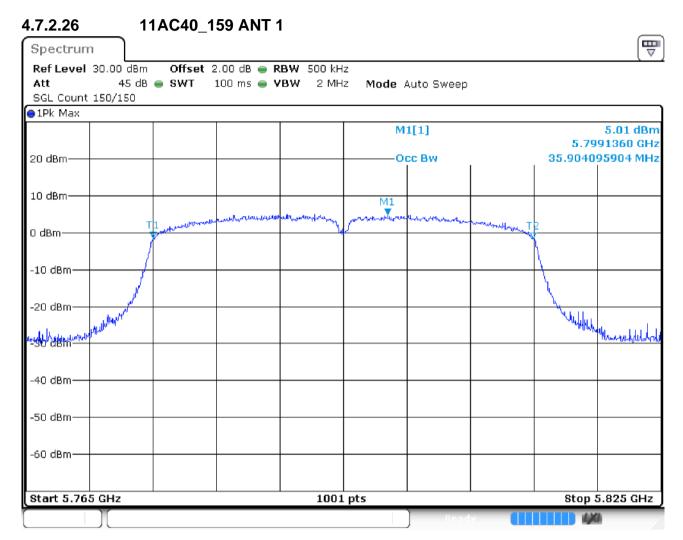
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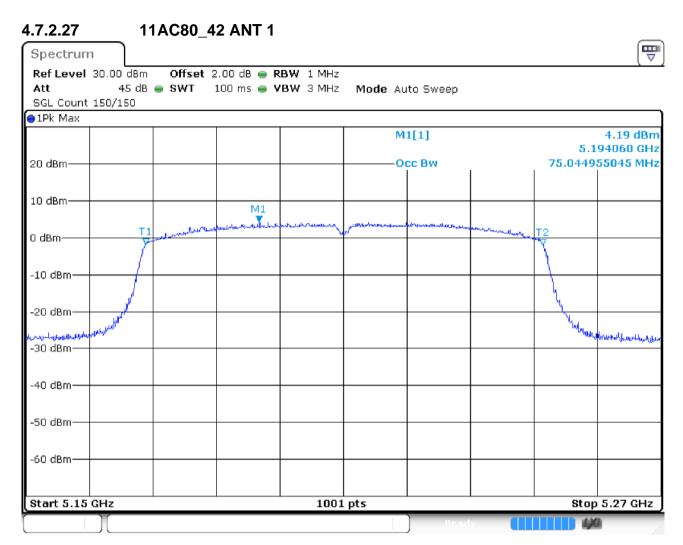
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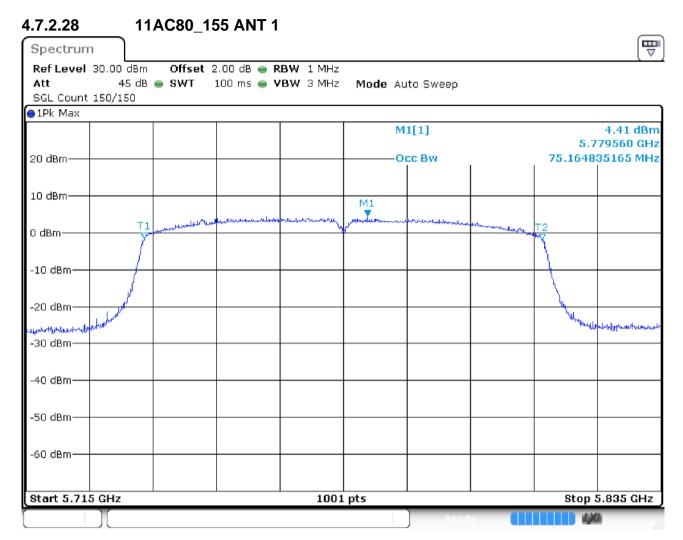
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#### 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Secti	on 15.407(a)	
Test Method:	ANSI C63.10: 2013		
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane		
Test Instruments:	Refer to section 5.10 for details		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.		
Limit:	Frequency Band	Limit	
	5150-5250MHz	The power spectral density less than 11dBm/1MHz	
	5725-5850MHz	The power spectral density less than <30dBm/500KHz	
Test Results:	Pass		



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4.8.1 Test Results For Power Density

4.0.1 1	4.8.1 Test Results For Power Density					
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm/500KHz]	Verdict	
11A20	36	5180	ANT 1	3.06	PASS	
	44	5220	ANT 1	3.12	PASS	
	48	5240	ANT 1	3.14	PASS	
	149	5745	ANT 1	-0.04	PASS	
	157	5785	ANT 1	0.23	PASS	
	165	5825	ANT 1	0.13	PASS	
11N20	36	5180	ANT 1	2.71	PASS	
	44	5220	ANT 1	2.71	PASS	
	48	5240	ANT 1	2.75	PASS	
	149	5745	ANT 1	-0.21	PASS	
	157	5785	ANT 1	-0.2	PASS	
	165	5825	ANT 1	-0.32	PASS	
11N40	38	5190	ANT 1	-0.82	PASS	
	46	5230	ANT 1	-0.95	PASS	
	151	5755	ANT 1	-3.77	PASS	
	159	5795	ANT 1	-3.73	PASS	
11AC20	36	5180	ANT 1	2.54	PASS	
	44	5220	ANT 1	2.56	PASS	
	48	5240	ANT 1	2.54	PASS	
	149	5745	ANT 1	-0.44	PASS	
	157	5785	ANT 1	-0.36	PASS	
	165	5825	ANT 1	-0.5	PASS	
11AC40	38	5190	ANT 1	-0.96	PASS	
	46	5230	ANT 1	-1.06	PASS	
	151	5755	ANT 1	-4.07	PASS	
	159	5795	ANT 1	-3.95	PASS	
11AC80	42	5210	ANT 1	-5.46	PASS	
	155	5775	ANT 1	-8.39	PASS	



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#### 4.8.2 Test plots For Power Density



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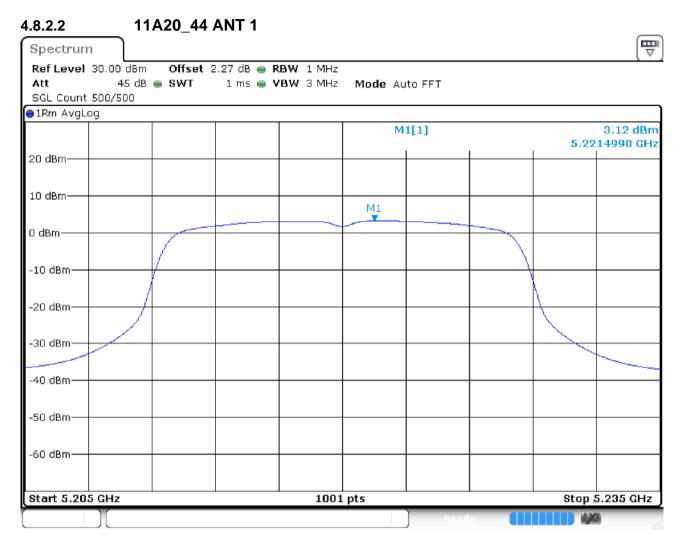
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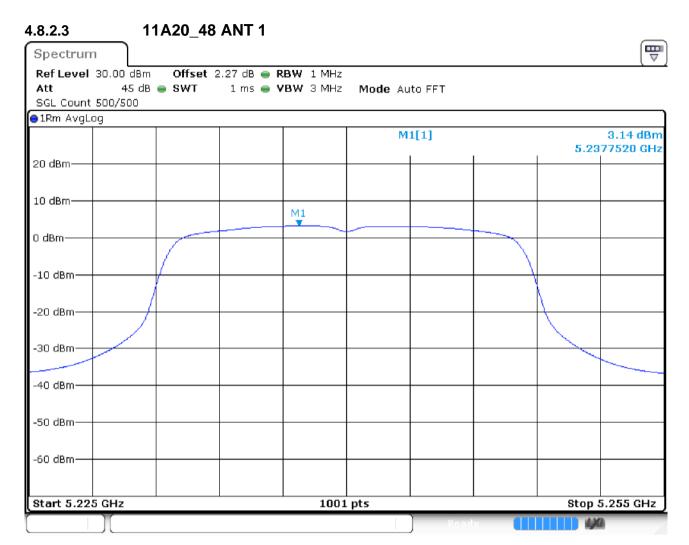
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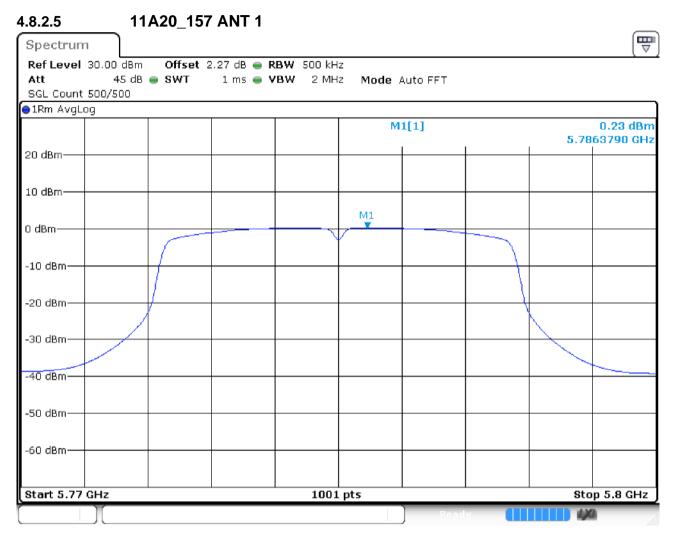
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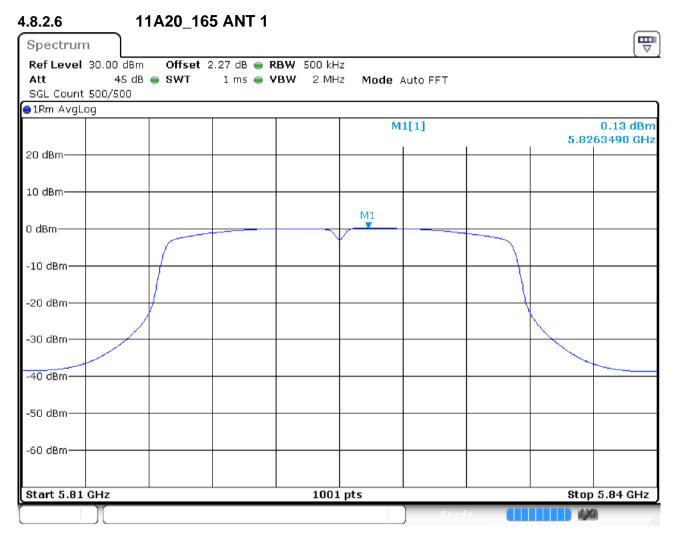
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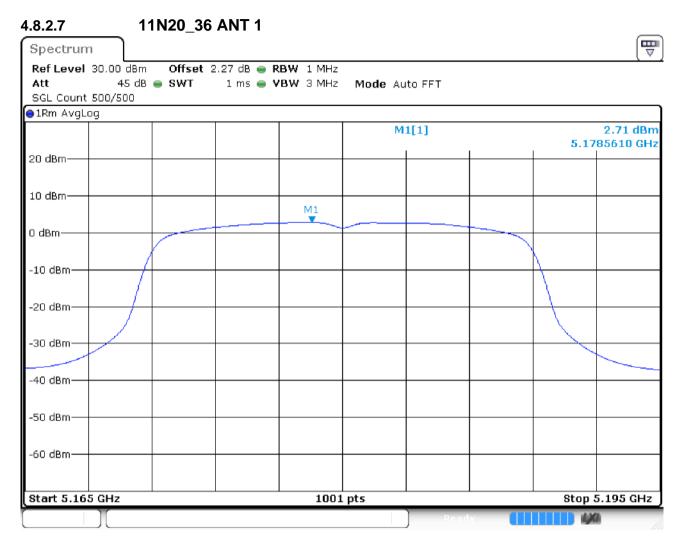
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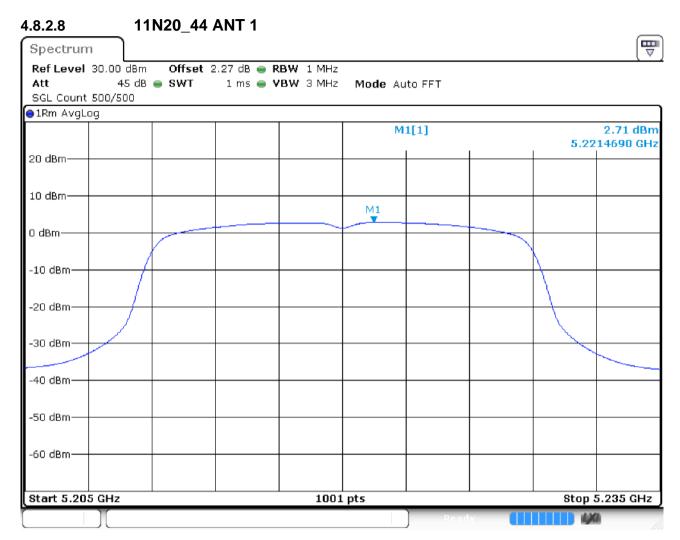
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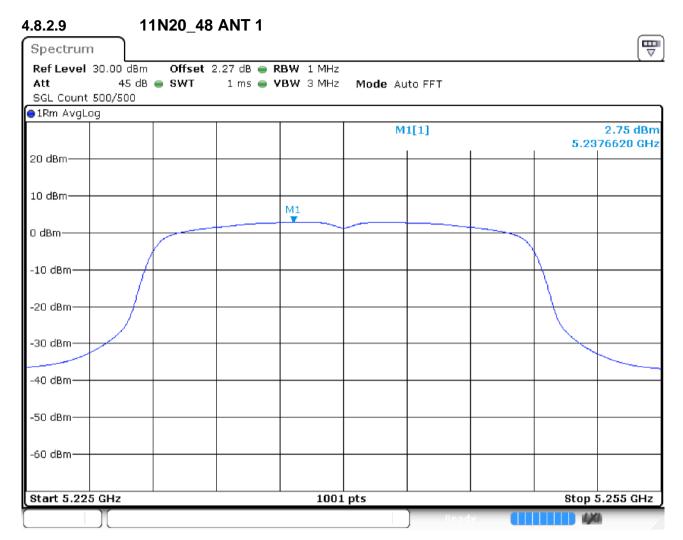
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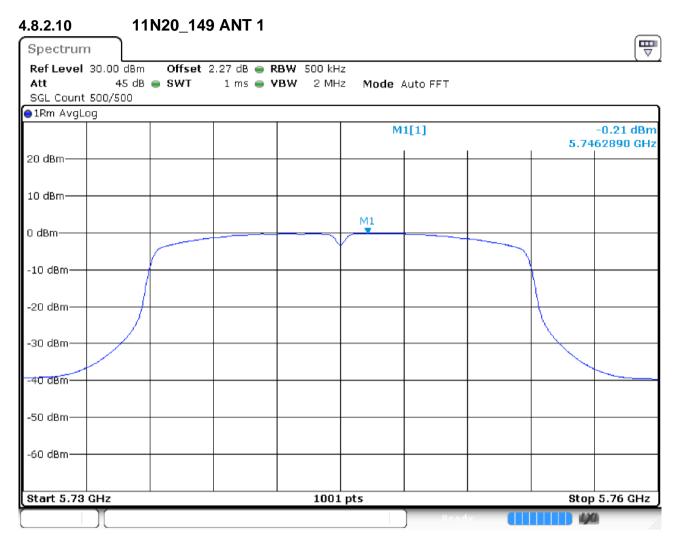
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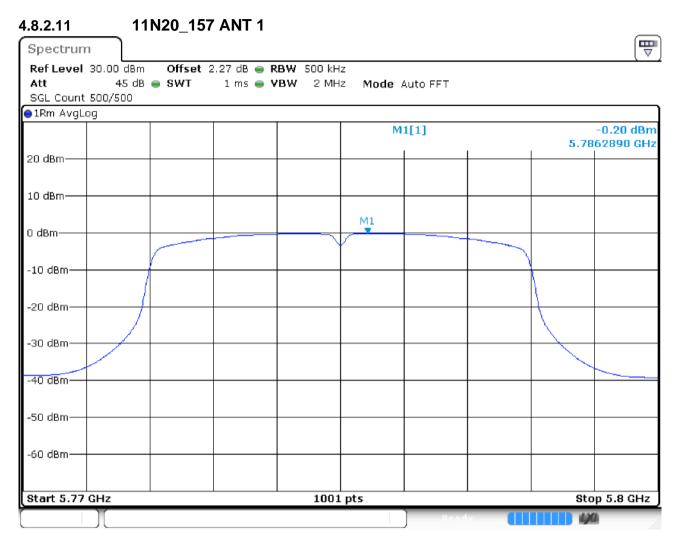
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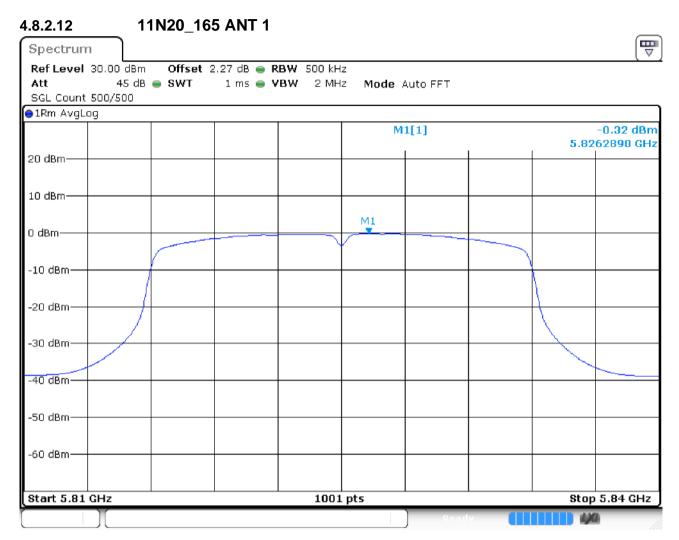
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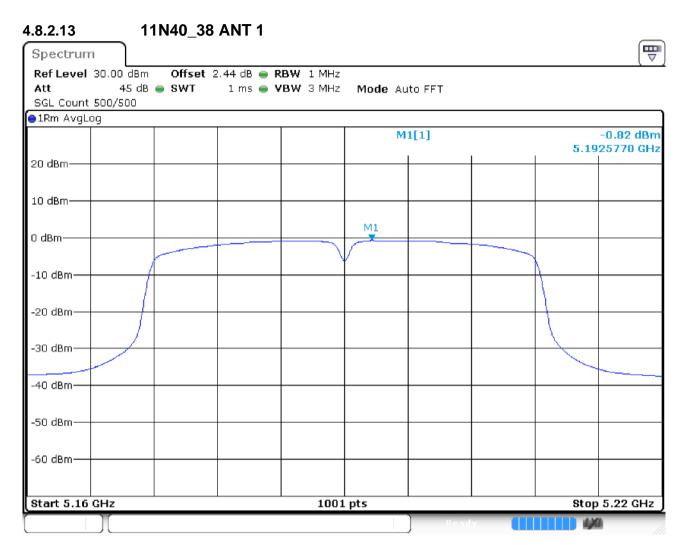
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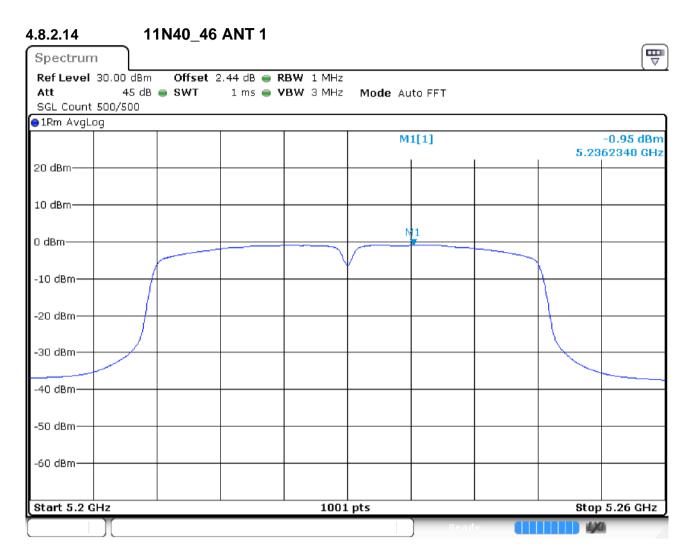
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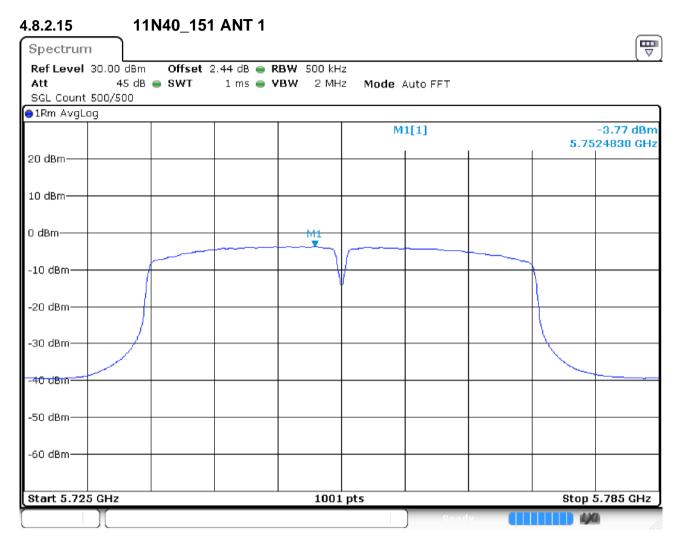
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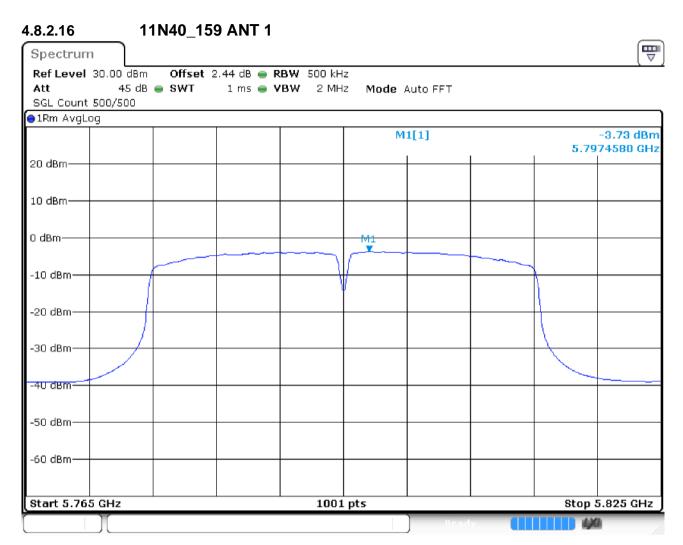
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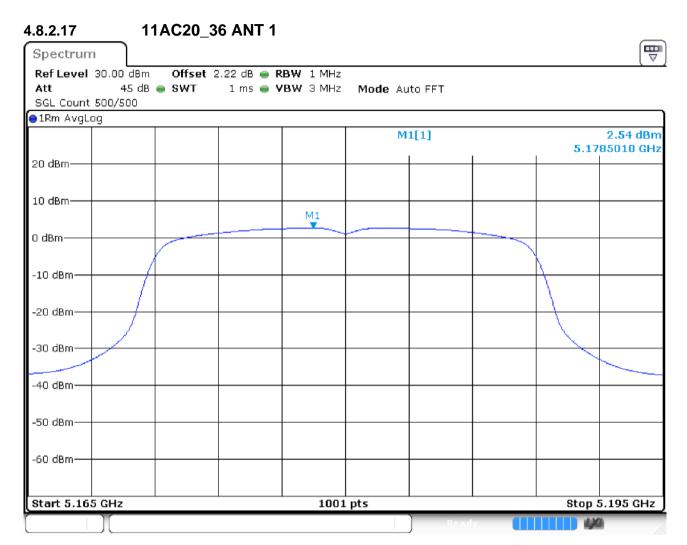
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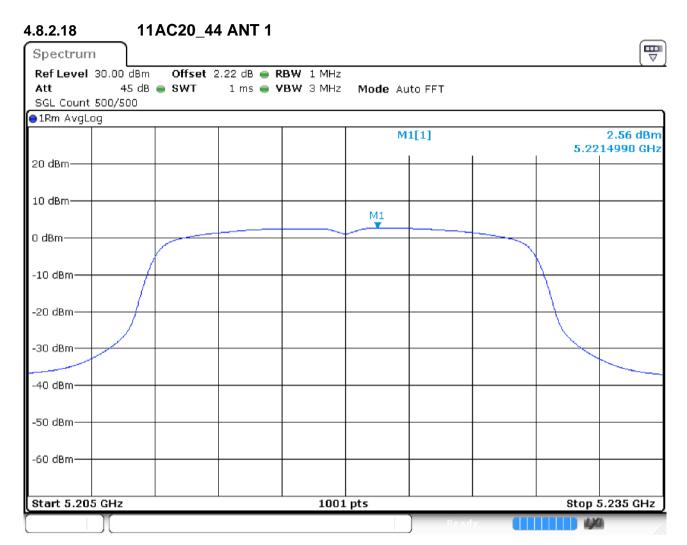
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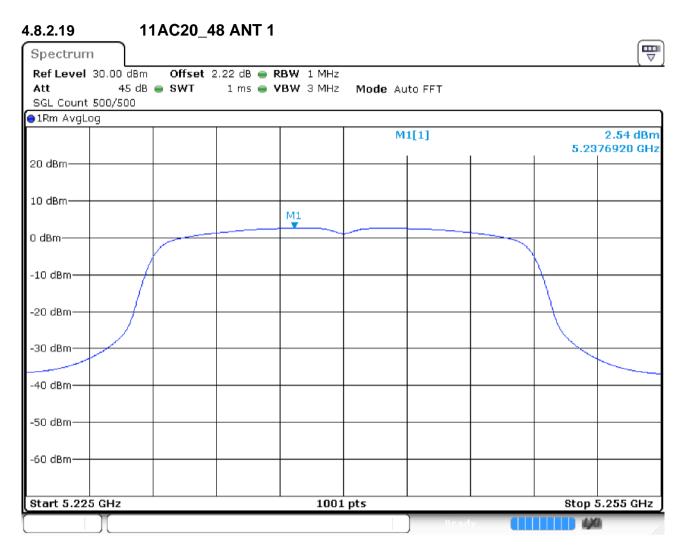
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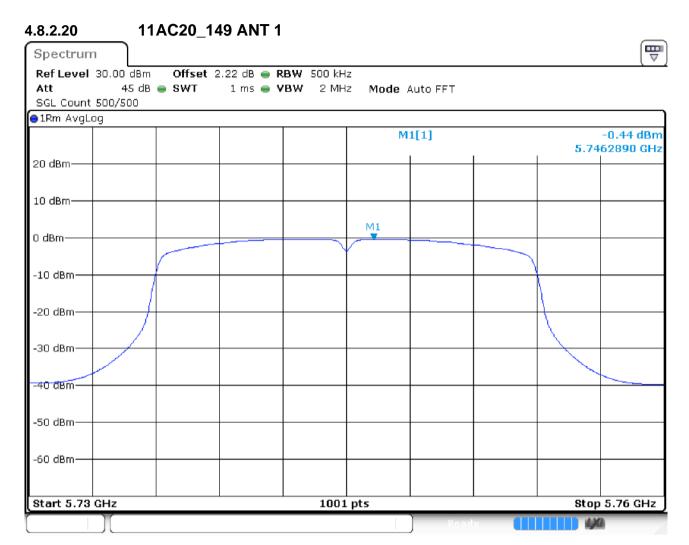
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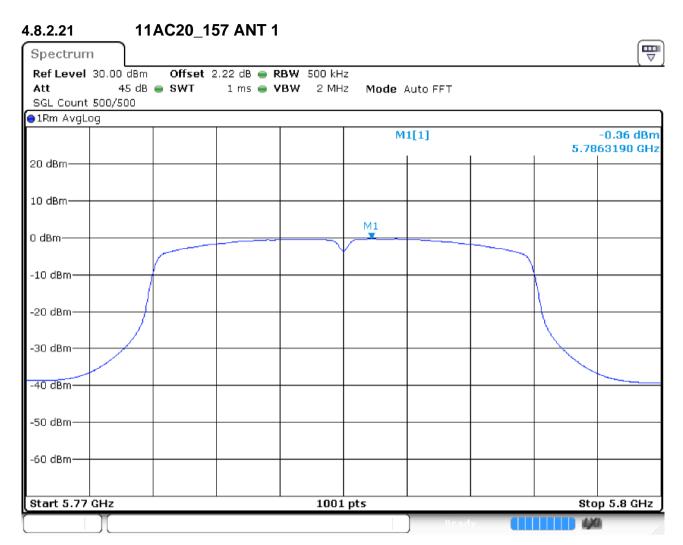
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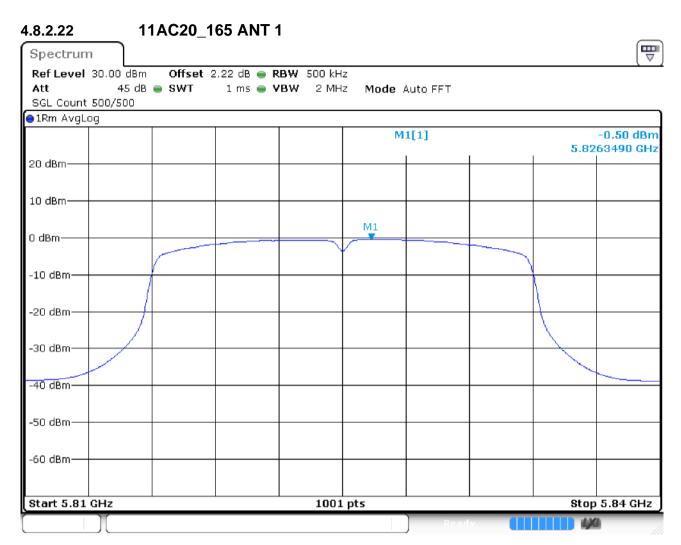
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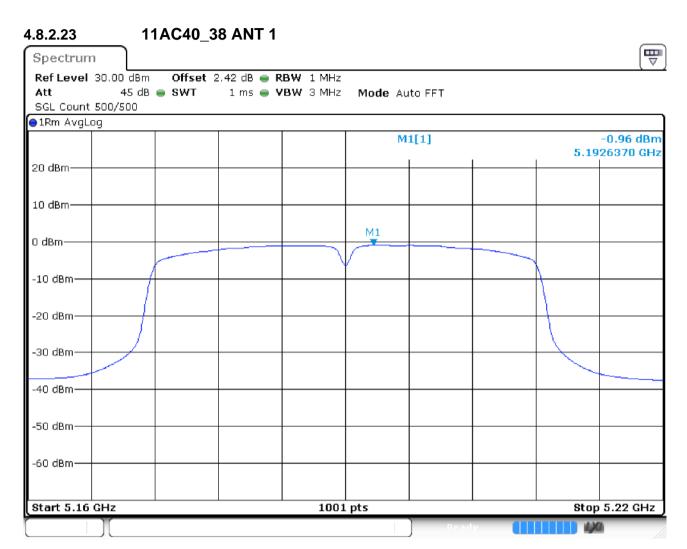
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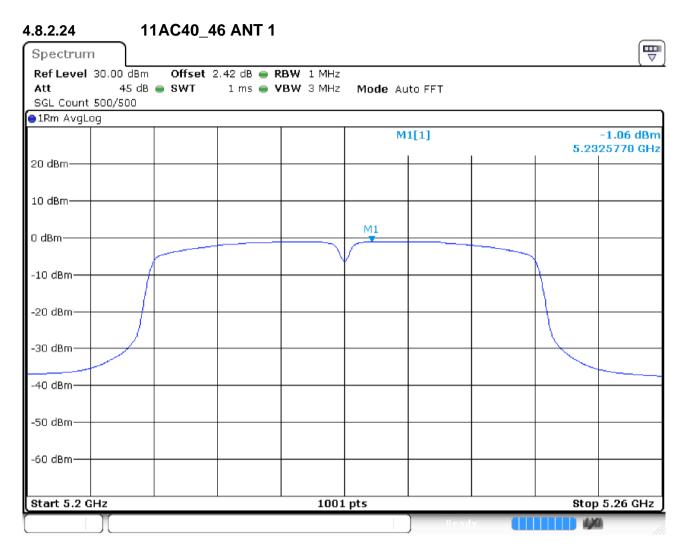
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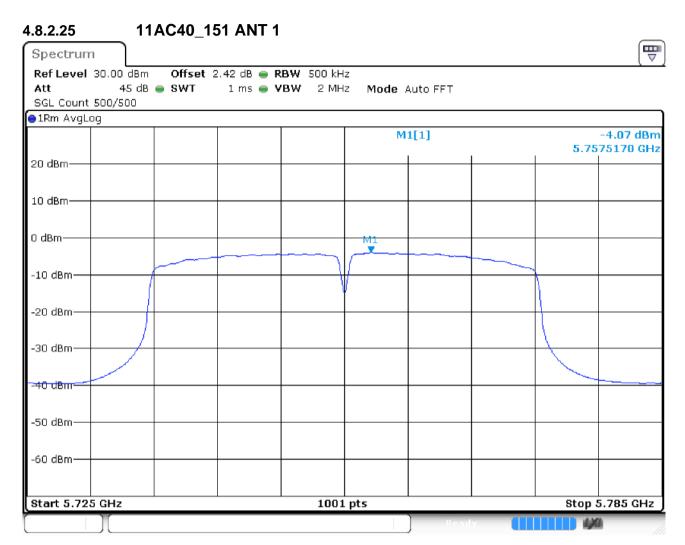
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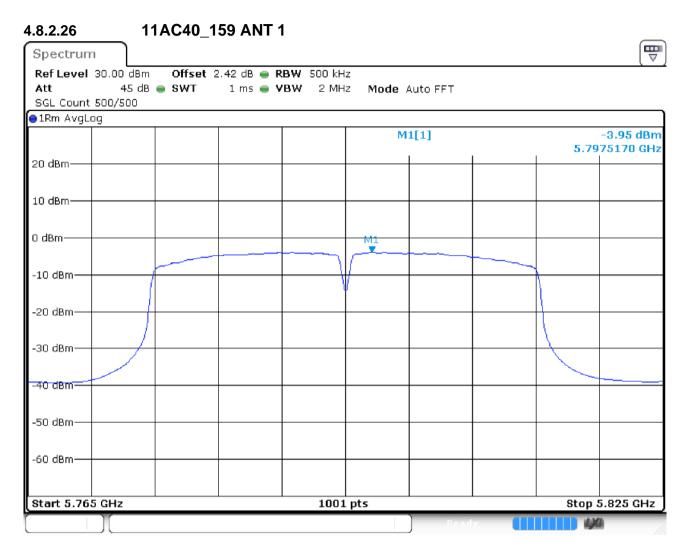
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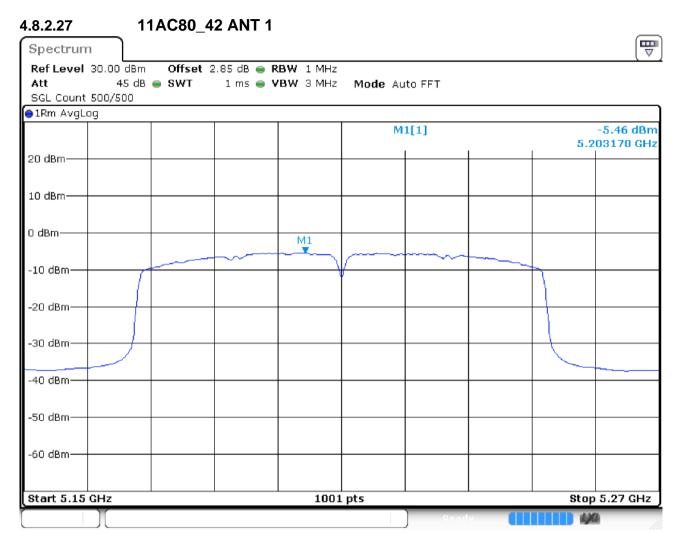
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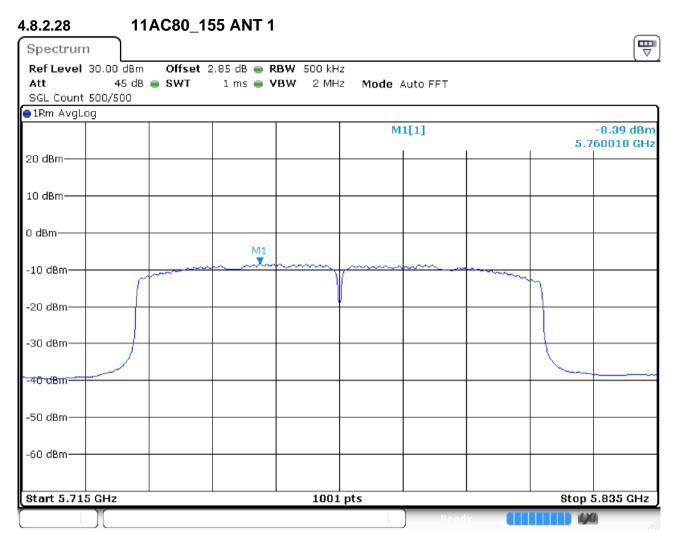
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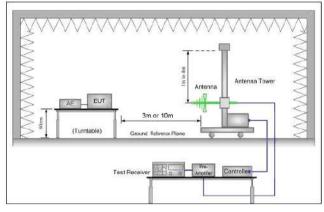
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#### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	



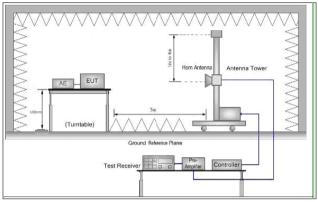


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

#### Test Procedure:

- a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.



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